B27TF680 OVERALL WIRING
2001.07.09.

2001.07.09

TERMINAL-SUB FA680PE

TERMINAL FA640PE

B.TO B. Z0860GE
1	MTS_AUDIO(R)	1
2	MTS_AUDIO(L)	2
3	GND	3
4	TV_AUDIO(R)	4
5	TV_AUDIO(L)	5
6	GND	6
7	AUDIO_OUT(L)	7
8	AUDIO_OUT(R)	8

B.TO B. Z0860GE
1	YC_SEPA_C	1
2	GND	2
3	YC_SEPA_Y	3
4	GND	4
5	COMPOSITE_VIDEO	5
6	GND	6
7	MTS_IN	7
8	GND	8

B.TO B. Z0860GE
1	FSC	1
2	PC9V	2
3	PC5V	3
4	IIC_DATA	4
5	IIC_CLOCK	5
6	GND	6
7	EQ.S	7
8	B/W	8

AVI
- REAR-V
- REAR-AL
- REAR-AR

MONITOR OUT
- V-OUT
- S OUT-L
- S OUT-R

AUDIO DIGITAL OUT

AUDIO OPTICAL OUT

N0861CE CNW-A193WJ N0841CE
GBN		GBN
1	GND	1
2	9V	2
3	GND	3
4	R	4
5	G	5
6	B	6
7	GND	7
8	VM SIG	8

CRT FA688PE

N0241CE PU
VM COIL	→	1
VM COIL	←	2

SVM COIL

CNW-5298CE

FOCUS

ANODE

SC885D V0938CE

CRT V868LUW696X##S

P885B M0063CE GROUNDING STRAP

N0761CE CNW-A203WJ

DEFLECTION FA638PE

N0741CE CNW-A096WJ
N		N
1	+210V	1
2	NC	2
3	GND	3
4	HEATER	4
5	HEATER GND	5
6	NC	6
7	+130V	7

BA N0561CE BA
1	H-DRIVE	1
2	GND	2
3	H-PULSE	3
4	GND	4
5	PROTECTOR	5
6	ABL	6

CNW-A192WJ

WA N0961CE WA
1	TV9V	1
2	V-BLK	2
3	GND	3
4	IIC_DATA	4
5	IIC_CLOCK	5
6	VP-OUT	6
7	+14V	7
8	NC	8
9	NC	9

FROM T5603
- (ANODE)
- (FOCUS)
- (SCREEN)

N0160FJZZ K
H_DY	→	1
N.C		2
H_DY	←	3
V_DY	←	4
V_DY	→	5

DY RCILH0259PE

P52 CNW-A206WJ P903 GND

VCR MECHA

V-BASE

ROTARY TRANS.

VIDEO HEAD HEDV02346E
- EP R
- EP L
- SP R
- SP L

HIFI HEAD HEDV02396E
- HIFI CH1
- HIFI CH2

MZ

FFC

AH N0911REN1
1	←	EP REC
2	→	EP (L)
3	→	EP (R)
4	←	SP REC
5	→	SP (R)
6	→	SP (L)
7	←	HIFI REC
8	→	HIFI CH2
9	→	HIFI CH1

MAIN FA603PE

FFC CNW-2619PE
SA	N2295RE	SA
1	B/W	1
2	EQ.S	2
3	YM	3
4	X-RAY	4
5	SAP(H)	5
6	SP_MUTE	6
7	SVM	7
8	NC	8
9	GND	9
10	EXT_IN	10
11	EXT_OUT	11
12	OSD-R	12
13	OSD-B	13
14	OSD-G	14
15	OSD-BLK	15
16	GND	16
17	SYNC_DET	17
18	V-BLK	18
19	H-PULSE	19
20	GND	20
21	IIC_DATA	21
22	IIC_CLOCK	22

B.TO B. XB Z1040CE XB
1	SP_MUTE	1
2	GND	2
3	+8V	3
4	R(VAO)	4
5	GND	5
6	L(VAO)	6
7	GND	7
8	33V	8
9	GND	9
10	12V	10

JACK FA668PE

VIDEO 2
- FRONT-V
- FRONT-AL
- FRONT-AR

HEADPHONE

Z0630GE B.TO B. Z0613CE
XC		XC
1	GND	1
2	GND	2
3	IIC_CLOCK	3
4	IIC_DATA	4
5	EXT	5
6	EXT_LED	6

TV POWER FA639PE

CNW-2630PE
GA	N0561CE	GA
1	+130V	1
2	+130V	2
3	NC	3
4	GND	4
5	GND	5

CNW-A088WJ & A087WJ

SE N0461CE SPEAKER
1	SPOUT-L+	L
2	SPOUT-L-	L
3	SPOUT-R+	R
4	SPOUT-R-	R

N0260CE M
ADG COIL		1
ADG COIL		2

ADG COIL RCIL60056PE

FULL ERASE HEAD HEADT0036AJ

FULL ERASE HEAD

B.TO B. Z0293GE
MJ		AE
1	FULL ERASE HEAD	1
2	ERASE GND	2

AUDIO/CONTROL PWB F5469AJ

AUDIO CONTROL HEAD HEDU0088GE
- AUDIO ERASE HEAD
- AUDIO HEAD
- CONTROL HEAD

N0605RE MH
AE HEAD	→	6
AE HEAD	→	5
AUDIO HEAD(PB)	→	4
AUDIO HEAD(REC)	→	3
CTL Ⓐ	↔	2
CTL Ⓐ	↔	1

FFC

CNW-8021AJ

AA N0695RE
1	AE HEAD	
2	AE HEAD	
3	AUDIO HEAD(PB)	
4	AUDIO HEAD(REC)	
5	CTL Ⓐ	
6	CTL Ⓐ	

LOADING MOTOR PWB F5468AJ

LOADING MOTOR RMOTM1078GE

B.TO B. Z0292GE
MG		AL
2	LOADING MOTOR Ⓐ	2
1	LOADING MOTOR Ⓑ	1

CAPSTAN MOTOR UNIT RMOTN2067GEZZ

M6310FP CAPSTAN MOTOR DRIVER

0.1 (25V)
220P (50V)
18K
560K
MR
.47 (25V)
.47 (1/2W)
1/2W*
180
REF DRIVER
DRIVER
.33 (25V)
.33 (25V)
.33 (25V)
HW101A X3

B.TO B. Z0883GE AC
1	GND	1
2	MOTOR GND	2
3	CURRENT LIMIT	3
4	CAPSTAN CONTROL	4
5	MOTOR VCC	5
6	CAPSTAN FG	6
7	CAP RVS (L)	7
8	PC5V	8

DRUM MOTOR UNIT RMOTP1139GEZZ OR RMOTP1151GEZZ

CORE

ME
U	←	7
V	←	6
W	←	5
COM	—	4
M-GND	—	3
D-PG	→	2
D-PG	→	1

FFC

AD N0795RE
1	U OUT	
2	V OUT	
3	W OUT	
4	M-COM	
5	M-GND	
6	D-PG -	
7	D-PG +	

CNW-8022AJ

CNW-5030PEN3

VCR CONTROL FA643PE

OO N0342CE OO
3	KEYIN 1	3
2	KEYIN 2	2
1	GND	1

N0361CE OR
RLY-DRIVE		1
SHORT PROTECT		2
GND		3

CNW-5030PEN3

CNW-2627PE

N0-0978GE OC
AC-50/60-TC		1
GND		2
GND		3
AT5V(2)		4
AT5V(1)		5
PC23V		6
MOTOR-GND		7
PC12V		8
P-CON(H)		9

FFC CNW-2619PE
SB	N2295RE	SB
1	VCR_PB_Y	1
2	GND	2
3	VCR_PB_C	3
4	GND	4
5	VCR_PB_AUDIO(L)	5
6	GND	6
7	VCR_PB_AUDIO(R)	7
8	GND	8
9	TV_TUNER_AFT	9
10	GND	10
11	VCR_REC_C	11
12	GND	12
13	VCR_REC_VIDEO	13
14	GND	14
15	VCR_REC_AUDIO(L)	15
16	TV_AUDIO_MUTE(O)	16
17	VCR_REC_AUDIO(R)	17
18	GND	18
19	COMP_SW	19
20	VCR_MTS_DET	20
21	VCR_TUNER_AFT	21
22	F_MONO	22

CNW-2568PE
DB		DB
R/C PULSE	→	5
GND	—	4
Y/C CLOCK	→	3
Y/C DATA	→	2
STBY_P-CON	→	1

N0578GE N0580GE

CNW-A083WJ
AR	N0778GE	AR
1	FRONT-V	1
2	GND	2
3	FRONT-AL	3
4	GND	4
5	FRONT-AR	5
6	GND	6
7	FRONT-AV	7

CNW-A084WJ
ZA	N0578GE	ZA
1	SOUT-L	1
2	SPOUT-L	2
3	S-GND	3
4	SOUT-R	4
5	SPOUT-R	5

CNW-A131WJ
EB	N0360CE	EB
1	R	1
2	NC	2
3	B	3

CNW-2627PE

OC N0978GE
1	AC-50/60-TC	
2	GND	
3	GND	
4	AT5V(2)	
5	AT5V(1)	
6	PC23V	
7	MOTOR-GND	
8	PC12V	
9	P-CON(H)	

DVD/VCR POWER FA637PE

CNW-2626PE
SC	N0578GE	SC
1	PC5 V	1
2	PC 9V	2
3	33V	3
4	PC-19V	4
5	GND	5

N1180GE CNW-2629PE N1178GE
DD		DD
1	PC_3.3V(1)	1
2	GND	2
3	PC_1.8V	3
4	PC_5V	4
5	AT_5V	5
6	GND	6
7	PC_8V	7
8	PC_9V	8
9	GND	9
10	SHORT_DET	10
11	P-CON_L	11

N0278GE CNW-2597PE N0280GE
DF		DF
1	SPDIF	1
2	GND	2

N1278GE CNW-2631PE N1280GE
DA		DA
1	DVD_PB- Y	1
2	D-V-GND	2
3	DVD_PB- C	3
4	D-V-GND	4
5	DVD_PB- CVBS	5
6	D-V-GND	6
7	DVD_AUDIO(L)	7
8	D-A-GND	8
9	DVD_AUDIO(R)	9
10	D-GND	10
11	RXD2	11
12	RXDCTL	12

CNW-5030PEN3

N0361CE OR
RLY-DRIVE		1
SHORT PROTECT		2
GND		3

CNW-A085WJ & A085WJ

DC N0680GE DC
1	KEY_IN 2	1
2	KEY_IN 1	2
3	OPEN/CLOSE KEY	3
4	GND	4
5	VCR_LED	5
6	DVD_LED	6

DVD CONTROL FA642PE

AC CORD AC 120V 60 Hz QACCD3064CESA

DVD MAIN F6054AJ

N0913REN1 CA CN802
1	MODE_SW	9
2	V-MUTE	8
3	SI(H)	7
4	A_GND	6
5	C/CB	5
6	A_GND	4
7	Y/CR	3
8	A_GND	2
9	CVBS/Y	1

N0936TA

N2913REN1 CB CN801
1	FIP_CS	29
2	FIP_CK	28
3	FIP_DA	27
4	FIP_OUT	26
5	R/C	25
6	KEY1	24
7	KEY2	23
8	D_GND	22
9	STAN_REQ	21
10	TRAY_REQ	20
11	STAN_ACK	19
12	TRAY_ACK	18
13	D_GND	17
14	RSTO_I	16
15	A_MUTE	15
16	RXD2	14
17	RXCTL	13
18	ADAC_L	12
19	ADAC_CK	11
20	ADAC_DA	10
21	D_GND	9
22	AOUT2	8
23	AOUT1	7
24	AOUT0	6
25	ALRCLK	5
26	ABCLK	4
27	AMCLK	3
28	SPDIF_OUT	2
29	D_GND	1

N0980GE N0964TA

CC CN201
1	A_5V	1
2	D_5V	2
3	D_1.8V	3
4	M_GND	4
5	A_GND	5
6	D_GND	6
7	A_3.3V	7
8	D_3.3V	8
9	PC_8V	9

N2936TA

DVD MECHA

N2336TA PICK UP
1	Vo1	23
2	PD(CD)	22
3	LD(CD)	21
4	GND	20
5	PUID	19
6	FO-	18
7	TR+	17
8	TR-	16
9	FO+	15
10	VB	14
11	VC	13
12	VD	12
13	VA	11
14	VE	10
15	VF	9
16	VCC	8
17	V+A	7
18	GND	6
19	Vo1	5
20	PD(DVD)	4
21	LD(DVD)	3
22	RF	2
23	VOSC	1

N0564TA

AA MECHA
1	SPIN-	1
2	SPIN+	2
3	IN_SW	3
4	GND	4
5	SL+	5
6	SL-	6

N0564TA

AC MECHA
1	LD_SW	1
2	GND	2
3	EJ_SW	3
4	LD+	4
5	LD-	5

DVD SUB F6081AJ

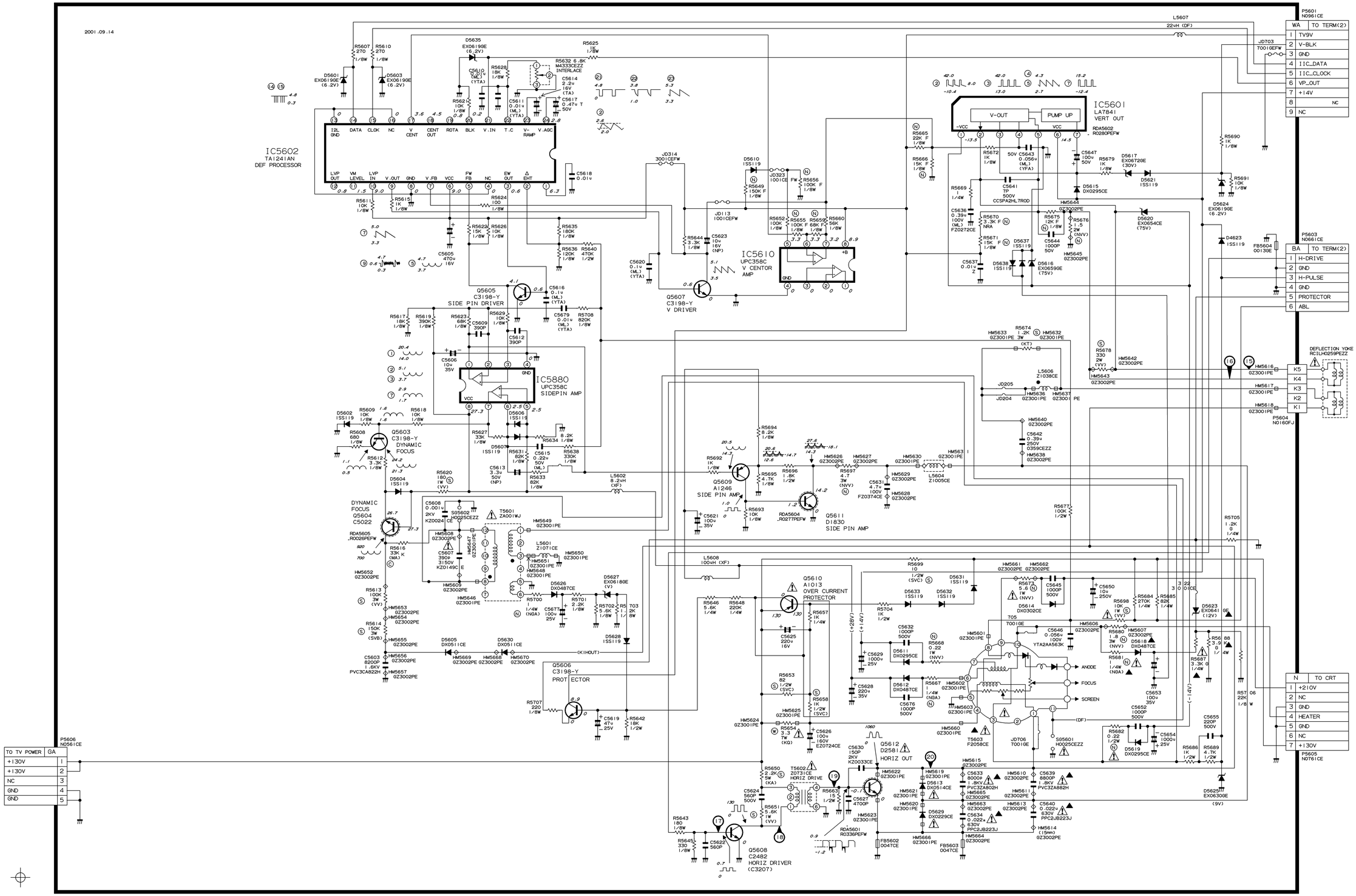
B27TF680 DEF DUNTKA638WE

⚠ AND SHADED(▬) COMPONENTS = SAFETY RELATED PARTS.
▲ MARK = X-RAY RELATED PARTS.

NOTE: 1. THE UNIT OF RESISTANCE "OHM" IS OMITTED (K=1000 OHMS, M=MEGAOHM).
2. THE UNIT OF ALL CAPACITORS ARE F WITH PREFIX SYMBOL (u, P, ETC).

2001/09/05: R5640 TO 470K FROM 820K. R5708 TO 820K FROM 470K

2001.09.14



P5601 N0961CE	
WA	TO TERM(2)
1	TV9V
2	V-BLK
3	GND
4	IIC_DATA
5	IIC_CLOCK
6	VP_OUT
7	+14V
8	NC
9	NC

P5603 N0661CE	
BA	TO TERM(2)
1	H-DRIVE
2	GND
3	H-PULSE
4	GND
5	PROTECTOR
6	ABL

P5604 N0160FJ	
K5	
K4	
K3	
K2	
K1	

P5605 N0761CE	
N	TO CRT
1	+210V
2	NC
3	GND
4	HEATER
5	GND
6	NC
7	+130V

P5606 N0561CE	
TO TV POWER	GA
+130V	1
+130V	2
NC	3
GND	4
GND	5

B27TF680

CRT

⚠ AND SHADED (▬) COMPONENTS = SAFETY RELATED PARTS.
▲ MARK = X-RAY RELATED PARTS.

NOTE: 1. THE UNIT OF RESISTANCE "OHM" IS OMITTED (K=1000 OHMS, M=MEGAOHM).
2. THE UNIT OF ALL CAPACITORS ARE F WITH PREFIX SYMBOL (u, P, ETC).

REPLACE WITH A PICTURE TUBE OF THE SAME TYPE NUMBER FOR CONTINUED SAFETY.

27.2KV (AT 1750uA)

CRT UNIT 2001.09.14

(DUNTKA686WEV1) ... T27TF668, B27TF680

- RDA8850 R0248PEFW

IC8850
TDA6103Q R.G.B OUT

R IN	G IN	B IN	GND	VIP	VDD	B OUT	G OUT	R OUT
1	2	3	4	5	6	7	8	9
3.3	3.3	3.3	0	3.8	206	142	141	145 140

SCREEN
FOCUS
ANODE

K857
P8856
M0083CE

SC8850
V0936CE

CRT
VB68LUW696X*S

P8858
M0083CE

GROUNDING STRAP
QEARC1501PEZZ

FB8850
00910E

C8851
0.01u
3kv
KZ018J CE

C8850
0.082 u
250V

D8853
EX0647GE
(15V)

D8850
DX0220CE

D8851
DX0220CE

D8852
DX0220CE

R8850 1.5K 1/2W
R8851 1.5K 1/2W
R8852 1.5K 1/2W

R8853 2.7K 1/2W
R8854 2.7K 1/2W
R8855 2.7K 1/2W

R8856 220K 1/2W
R8857 220K 1/2W
R8858 220K 1/2W

R8876 180K 1/2W
R8875 180K 1/2W
R8874 180K 1/2W

R8862 1.5K K 1/2W
R8863 1.5K K 1/2W
R8864 1.5K K 1/2W

TP47R 155 1001CEFW
TP47B 356 3001CEFW

R8867 3.3K 1/8W
R8868 2.2K 1/8W
R8869 8.2K 1/8W
C8853 0.22u
362

C8852 220u 16V

R8872 1.2K 1/4W

R8870 22K 1/8W
D8854 1SS119
Q8850 A1266-Y VIDEO MUTE
C8856 47u 16V
R8871 22K 1/8W
Q8851 C3198-Y VIDEO MUTE

D8855 1SS119
D8856 EX0718GE (3.0V)
C8854 220u 16V

P8860
N0841CE

TO TERM(2)	GBN
GND	1
9V	2
GND	3
R	4
G	5
B	6
GND	7
VM SIG	8

R8891 10 1/8W

C8855 10u 250V
R8873 220K 1/2W

P8854
N0741CE

N	TO DEF
1	+210V
2	NC
3	GND
4	HEATER
5	HEATER GND
6	NC
7	+130V

R1513 470 2W

(+9V)
C1501 47u 16V
C1506 0.01uZ
R1511 100 1/8W

Q1504 C3198-Y FINE DRIVE
R1514 10 1/8W
R1515 82 1/8W
R1516 82 1/8W
C1508 4700P 500V
C1509 4700P 500V

D1515 EX0400GE (11V)
D1518 EX0400GE (11V)
D1510 1SS119
R1530 2.2K 1/8W

Q1505 A1266-Y FINE DRIVE

D1502 1SS119
D1503 1SS119

C1510 0.01uZ
C1511 0.01uZ
R1517 1.2K 1/8W
R1518 68K 1/8W
R1519 12K 1/8W
R1520 68K 1/8W
R1521 1.2K 1/8W

Q1506 A1930 A1964E FINE OUT
RDA1506 R0083PEFW

Q1507 C5171 C5248E FINE OUT
RDA1507 R0083PEFW

R1525 56 1/4W
R1526 56 1/4W
R1527 2.7 1/4W
R1528 2.7 1/4W

C1515 47u 16V
C1516 47u 16V
C1519 10u 160V
C1517 10u 100V
C1518 56P K 500V

D1506 DX0487CE
D1507 DX0487CE

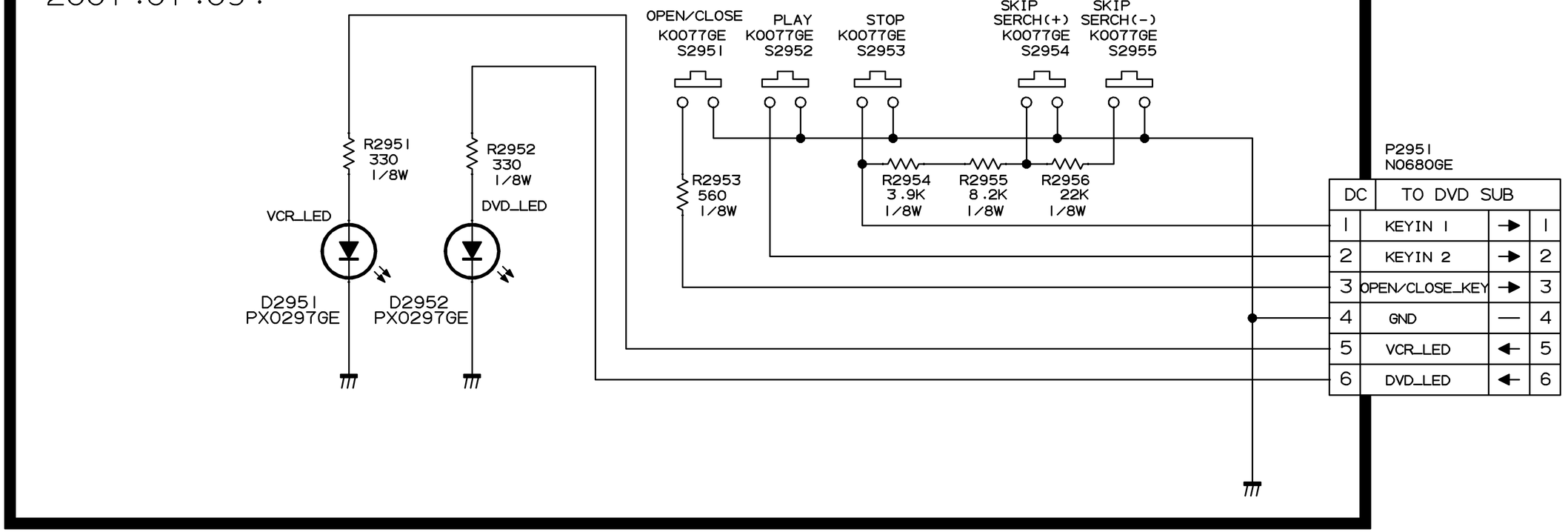
R1529 220 2W

PU2
PU1
SVM COIL
P8861
N0241CE

B27TF680

DVD_CONTROL DUNTKA642WE

2001.07.09.



NOTE: 1.THE UNIT OF RESISTANCE "OHM" IS OMITTED
(K=1000 OHMS, M=MEGAOHM).
2.THE UNIT OF ALL CAPACITORS ARE F WITH PREFIX SYMBOL
(u, P, ETC).

NOTE:1.THE UNIT OF RESISTANCE "OHM" IS OMITTED
(K=1000 OHMS, M=MEGAOHM).
2.ALL RESISTORS ARE WATT UNLESS OTHERWISE NOTED.
3.UNIT OF ALL CAPACITORS ARE F WITH PREFIX SYMBOL.
(u, P, ETC).

2001.07.09.

DVD MAIN PWB(view 1 of 2)

IC301
TA1323F+
RF_Processor

IC701
TC94A03F
SERVO ECC

IC702
IX3420CE
4M EDO DRAM

IC705
NJM2904M
OR BA10358F

IC770
BA5984FP
Motor_Driver

IC7702
TC4W53F

CN301
N0384TA
PTCK_UP

25	Vo1	1
22	PD(CD)	2
21	LD(CD)	3
20	GND	4
19	PUID	5
18	FO-	6
17	TR+	7
16	TR-	8
15	FO+	9
14	VB	10
13	VC	11
12	VD	12
11	VA	13
10	VE	14
9	VF	15
8	VCC	16
7	VFA	17
6	GND	18
5	Vo1	19
4	PD(DVD)	20
3	LD(DVD)	21
2	RF	22
1	VOSC	23

CN702
N0584TA
MECHA

	LD_SW	1
	GND	2
	EJ_SW	3
	LD+	4
	LD-	5

CN701
N0664TA
MECHA

1	SPTN-	1
2	SPTN+	2
3	IN_SW	3
4	GND	4
5	SL+	5
6	SL-	6

CN703
N3023TA
TP

1	RFCOp	1
2	A_GND	2
3	FE	3
4	TE	4

CN723
N2864TA
TP

1	DATA	1
2	D_GND	2
3	CLK	3

Q301 A1576A+ HF_MOD_SW
Q302 A1298Y DVD+LD POWER_CTL
Q303 A1298Y CD+LD POWER_CTL
Q304 DAP222
Q307 C144EUA (DVD_L)
Q701 C144EUA
Q702 C144EUA

FB301 0ΩTTA

TO DVD MAIN(2)
SDCK_I
SVAL_I
SOSO_I
ERR_I
SDT_I
SD6_I
SD5_I
SD4_I
SD3_I
SD2_I
SD1_I
SD0_I
SRV_INT
SRV_CS
SRV_RST
WR
RD
MA
MD0
MD1
MD2
MD3
MD4
MD5
MD6
MD7

TO DVD MAIN(2)
TE
FE
RFRP_CPU
CHOP
DVD_L
MUTE

IN_SW
LD_SW
EJ_SW
LD_PWR
LD_GND

D_+3.3V
A_+3.3V
+5V
PRE_+5V
D_GND
A_GND

DVD MAIN PWB(view 2 of 2)
2001.07.09.

IC504 1X1687GE Micro_com

IC508 1X1761GE

IC507 BR93L66F E2PROM

IC503 PST8001M RESET

IC501 1X1689GE Flash ROM 8M

IC502 1X1765GE WORK RAM 4M EDO

IC601 1X17Z0GE AV DECORDER

IC602 1X3455CE 16M SDRAM

IC603 1X3455CE 16M SDRAM

X601 CO2396E (27.00MHz)

FL501 CO2070E (20MHz)

Q503 C144EUA

Q205 A1576A+

Q203 A1576A+

Q202 A1576A+

Q2500 A1298Y VPP_CTL

D501 DAN222

TO DVDMAIN(1)
SDCK_I
/SVAL_I
/SDSO_I
/SDSI_I
SDO_I
SDA_I
SDS_I
SDCS_I
SDRS_I
SDT_I

TO DVDMAIN(1)
/SRV_INT
/SRV_CS
/SRV_RST
/WR_I
/RD_I
MA_I
MD0
MD1
MD2
MD3
MD4
MD5
MD6
MD7

TO DVDMAIN(1)
TE
LVL
RFRP_CPU
CHOP
DVD_L
MUTE

TO DVDMAIN(1)
/IN_SW
/LD_SW
/LD_PWD
/LD_FWD

TO DVDMAIN(1)
D_3.3V
A_3.3V
A_5V
D_5V
D_CVBS
M_GND
D_GND
A_GND

CN801 N29367A
TO DVD SUB: 1 D_GND, 2 SPDIF_OUT, 3 AMCLK, 4 ABCLK, 5 ALRCLK, 6 AOUTO, 7, 8, 9 D_GND, 10 ADAC_DA, 11 ADAC_CK, 12 ADAC_L, 13 XVCTL, 14 RXD2, 15 MUTE, 16 RSTO_I, 17 D_GND, 18 TRAY_ACK, 19 STAN_ACK, 20 TRAY_REQ, 21 STAN_REQ, 22 D_GND, 23 KEY2, 24 KEY1, 25 R/C, 26 SVE_D2, 27 FIP_DA, 28 FIP_CK, 29 FIP_CS

CN802 N29367A
TO DVD SUB: 1 CVBS/Y, 2 A_GND, 3 Y/CR, 4 A_GND, 5 C/CB, 6 A_GND, 7 S1(H), 8 V_MUTE, 9 MODE_SW

CN201 N09647A
TO DVD SUB: 1 A_5V, 2 D_5V, 3 D_1.8/2.5V, 4 M_GND, 5 A_GND, 6 D_GND, 7 A_3.3V, 8 D_3.3V, 9 PC_8V

FB602 0052TA

B27TF680 DVD_SUB DUNTK6081TEV1

2001.07.09

⚠ AND SHADED(■) COMPONENTS = SAFETY RELATED PARTS.

NOTE: 1. THE UNIT OF RESISTANCE "OHM" IS OMITTED (K=1000 OHMS, M=MEGAOHM).
2. ALL RESISTORS ARE 1/16 WATT UNLESS OTHERWISE NOTED.
3. UNIT OF ALL CAPACITORS ARE F WITH PREFIX SYMBOL (u, P, ETC).

IC1001 MM1540AF VIDEO LPF/DRIVER

IC1101 PCM1737E AUDIO DAC

IC1102 NJM4560M AUDIO AMP

IC1201 A023WJ INTERFACE

RESET IC IC1202 PST600H

FL I201 ILC0121 GEZZ (8 MHz)

Q1103 A1530AR

Q1101 D1306-E L-CH MUTE

Q1102 D1306-E R-CH MUTE

Q1105 KRC103S

Q1106 KRC103S

Q1107 KRC103S

Q1108 KRC102S MUTE INVERT

Q1109 KRA102S R-CH MUTE BUFF.

Q1110 KRC102S MUTE INVERT

Q1111 KRA102S L-CH MUTE BUFF.

Q1104 KRC102S INVERT

Q1201 KRC103S

Q1202 KRC103S INVERT

Q1203 KRC102S INVERT

Q1204 KRC102S INVERT

Q1205 KRA102S INVERT

Q1206 KRC102S INVERT

Q1207 KRA102S INVERT

Q1208 KRA102S INVERT

Q1209 KRA102S INVERT

Q1210 KRA102S INVERT

Q1211 KRC102S INVERT

Q1212 KRC102S INVERT

Q1213 KRA102S INVERT

CN1001 S0CN0913REN1

	TO DVD MAIN(2)	CA
9	MODE_SW	1
8	V-MUTE(L)	2
7	SI(H)	3
6	A_GND	4
5	C/CB	5
4	A_GND	6
3	Y/CR	7
2	A_GND	8
1	CVBS/Y	9

CN1101 S0CN2913REN1

	TO DVD MAIN(2)	CB
29	FIP_CS	1
28	FIP_CK	2
27	FIP_DA	3
26	FIP_OUT	4
25	R/C	5
24	KEY1	6
23	KEY2	7
22	D_GND	8
21	STAN_REQ	9
20	TRAY_REQ	10
19	STAN_ACK	11
18	TRAY_ACK	12
17	D_GND	13
16	RSTO_I	14
15	A-MUTE	15
14	RXD2	16
13	RXDCTL	17
12	ADAC_L	18
11	ADAC_CK	19
10	ADAC_DA	20
9	D_GND	21
8	NC	22
7	NC	23
6	AOUTO	24
5	ALRCLK	25
4	ABCLK	26
3	AMCLK	27
2	SPDIF_OUT	28
1	D_GND	29

P1201 N06800E

TO DVD CONTROL	DC
KEY1	1
KEY2	2
OPEN-CLOSE KEY	3
GND	4
VCR_LED	5
DVD_LED	6

P1206 N02800E

TO TERM(2)	DF
SPDIF	1
GND	2

CN1201 N09800E

	TO DVD MAIN(2)	CC
1	A_5V	1
2	D_5V	2
3	D_1.8V	3
4	M_GND	4
5	A_GND	5
6	D_GND	6
7	PC_3.3V(1)	7
8	PC_3.3V(2)	8
9	PC_8V	9

P1102 N12800E

DA	TO TERM(2)	
1	DVD_PB-Y	→
2	D-V-GND	—
3	DVD_PB-C	→
4	D-V-GND	—
5	DVD_PB-CVBS	→
6	D-V-GND	—
7	DVD AUDIO(L)	→
8	D-A-GND	—
9	DVD AUDIO(R)	→
10	GND	—
11	RXD2	←
12	RXDCTL	←

P1203 N05800E

DB	TO MAIN(1)	
1	R/C PULSE	← 1
2	GND	— 2
3	Y/C CLOCK	← 3
4	Y/C DATA	← 4
5	STBY_P-CON	← 5

P1202 N11800E

DD	TO DVD/VCR POWER	
1	PC_3.3V(1)	← 1
2	GND	← 2
3	PC_1.8V	— 3
4	PC_5V	← 4
5	AT_5V	← 5
6	GND	— 6
7	PC_8V	← 7
8	PC_9V	← 8
9	GND	— 9
10	SHORT_DET	← 10
11	P-CON_L	→ 11

B27TF680 DVD/ VCR POWER DUNTKA637WE

⚠ AND SHADED(▬) COMPONENTS = SAFETY RELATED PARTS.

NOTE: 1.THE UNIT OF RESISTANCE "OHM" IS OMITTED (K=1000 OHMS, M=MEGAOHM).
2.THE UNIT OF ALL CAPACITORS ARE F WITH PREFIX SYMBOL (u, P, ETC).

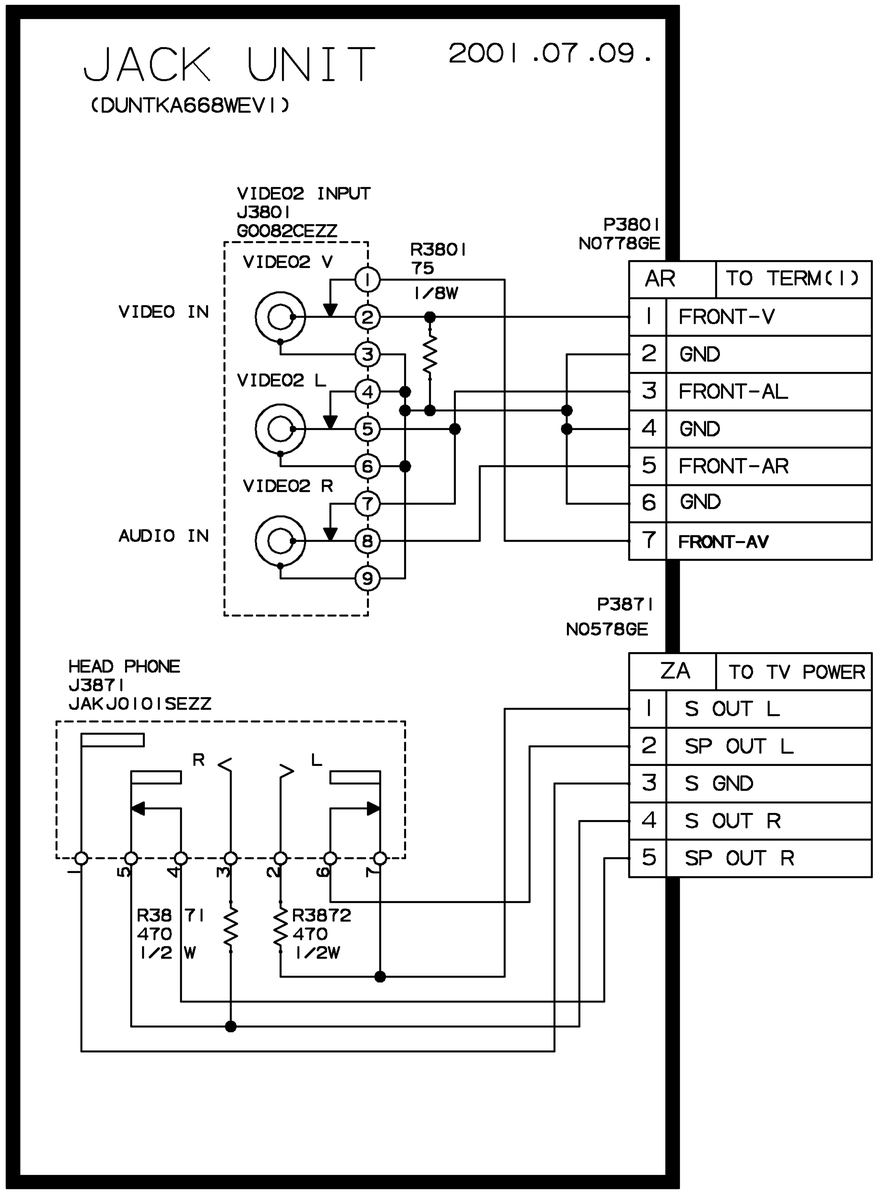
2001.07.09

PC12V
Q9074
A1271-Y
C9073 10u 16V
R9076 470 1/2W
R9075 10K 1/8W
Q9075
KRC103M
IC9051
T78DL09S
9V REG
OUT GND IN
IC9052
KA7808AP, R0104AJFW W9002
W9012 XBPSD30P10KS0
8V REG
OUT GND IN
PC12V
Q9053
B1443TV
C9052 220u 6.3V
R9054 10K 1/8W
R9055 820 1/4W
D9052 1SS119
PC9V
Q9073
A1271-Y
C9072 220u 6.3V
R9073 10K 1/8W
C9056 100u 16V
C9055 47u 16V
C9075 10u 16V
R9085 10K 1/8W
R9086 470 1/4W
D9075 1SS119
Q9076
KRC102M
PC9V
Q9077
A1271-Y
D9093 1SS119
D9091 1SS119
D9092 1SS119
R9074 470 1/4W
PC6V
Q9058
B1443TV
C9059 10u 16V
R9058 10K 1/8W
R9059 220 1/2W
W9013 XBPSD30P10KS0
W9003 F3014AFW
1.8V REG
OUT IN
D9071 1SS119
D9094 1SS119
W9011 XBPSD30P10KS0
W9001 R0103AJFW
3.3V REG
OUT IN
C9058 100u F 6.3V
R9069 1K 1/8W
R9070 12K 1/8W
R9071 2.2K 1/8W F
IC9054 PQ30RV11
C9057 10u 6.3V
R9066 2.7K F 1/8W
R9067 1.8K F
R9068 33K F 1/8W
IC9053 PQ30RV11
D9058 1SS119
P9002
N1178GE
TO DVD SUB | DD
PC_3.3V(1) | 1
GND | 2
PC_1.8V | 3
PC_5V | 4
AT_5V | 5
GND | 6
PC_8V | 7
PC_9V | 8
GND | 9
SHORT_DET | 10
P-CON_L | 11
{PC_3.3V}
{PC_1.8V}
{PC_5V}
{AT_5V}
{PC_8V}
{PC_9V}
{SHORT_DET}
{P-CON_L}
PC5V
Q9054
B1443TV
C9053 10u 16V
R9056 10K 1/8W
R9057 470 1/8W
D9053 1SS119
PC5V
Q9065
A1271-Y
C9065 10u 16V
R9051 10K 1/8W
R9052 470 1/8W
D9054 1SS119
R9061 1K
R9062 4.7K 1/8W
Q9057
KRA103M
BUFF
Q9059
C3198-Y
Q9056
C3198-Y
D9065 1SS119
IC9021
PQ15RW11
W9004 R0103AJFW
5.2V REG
OUT IN
R9063 10K 1/8W
R9064 100K 1/8W
R9065 47K 1/8W
C9060 0.01u 50V
R9021 1.5K F 1/8W
R9022 1.5K F 1/8W
C9021 100u 6.3V
P9001
N0578GE
TO TERM(1) | SC
PC5 V | 1
PC 9V | 2
33V | 3
PC-19V | 4
GND | 5
{PC-19V}
{AT33V}
R9012 1.5K 1W
C9064 100u 16V
50V 4.7u C9063
P9003
N0978GE
TO MAIN(1) | OC
AC-50/60-TC | 1
GND | 2
GND | 3
AT5V(2) | 4
AT5V(1) | 5
PC23V | 6
MOTOR-GND | 7
PC12V | 8
P-CON(H) | 9
{AC-50/60-TC}
C9061 100u 6.3V
C9062 100u 16V
PC23V
Q9078
B1443TV
R9080 1.8K 1/2W
R9079 10K 1/8W
Q9079
KRC102M
FB9002
00906E
D9010 1F4G
0088AJ 0036CE
D9011 1F4G
FB9001 00906E
L9002 10uH P0147GE
C9012 10u 10V
C9001 470u 35V
C9011 470u 35V
D9001 FR154GL+
C9002 330u 25V
C9003 22u 50V
D9003 1F4G
L9001 10uH P0184CE
W9015 XBPSD30P10KS0
D9004 DX0436CE
R9001 0
C9006 2200u 10V
C9004 2200u 10V
W9005 R0104AJFW
R9003 0 1001CEFW
R9004 220 1/8W
R9006 1K 1/8W
C9009 0.1u (ML) 50V
C9010 0.1u 50V
R9005 2.7K 1/8W
R9007 3.3K 1/8W
R9015 470 1/8W
R9009 1K 1/8W
R9010 1K 1/8W
(ML) D9006 MM1431AT or KIA431
D9005 FX0034CE or FX0008G E
R9774 1K 1/8W
IC901
FX0047CE
TC DETECTOR
D906 DX0441CE DX0279CE DX0442CE DX0443CE
R914 47K 1/2W
C913 0.01u 50V
R915 47K 1/2W
P901
N0360CE
EB | TO TV POWER
1 | R
2 | NC
3 | B
L903 F0314CE (LFZ3508TV07)
HM1 85 GZ3001PE
HM186 GZ3001PE
HM184 GZ3001PE
HM183 GZ3001PE
L902 F0313CE (LFZ2805V13)
HM97 GZ3002PE
HM98 GZ3002PE
HM96 GZ3002PE
HM95 GZ3002PE
C901 0.22u FZ037SCE
VA901 VX0019CE (ENC241)
FH2 1014CEZZ
FH1 1013CEZZ
F901 B832ICEZZ 6.3A FUSE
QACCD3064CESA 60Hz AC120V AC CORD
R902 3.9M 1/2W
R904 3.9M 1/2W
C911 150P 250VAC 0098EZZ KZA006WJ
C912 150P 250VAC 0098EZZ KZA006WJ
TO TERM(1) P52
P903 M0083CE
902 1001CEZZ
901 1001CEZZ
T901 W0022AJ
D901 DX0083GE
C902 0.1uF 250V FZ036SCE
R903 2.2 2W R-WZ0017GEZZ or R-WZ0002GE
C906 0.047u 400V YZP2GA473K
R905 68K 2W
R906 1M 1/2W
C907 330P 2kV KZ0112GE
D902 1F4G
R907 1M 1/2W
C905 100u 200V EZ0463GE
Q901 K262 4LS
C908 1000P 1kV KZ0112CE
W901 F5021AJFW
R910 680 1/2W
R908 220K 1/8W
C909 5600P M 50V
Q902 D2144S
C910 2200P 50V ML
W911 XBPSD 30P10KS0
R911 560 1/2W
D903 1SS119
D904 EX0645GE
R912 18K 1/8W
R913 22K 1/8W

B27TF680

NOTE: 1.THE UNIT OF RESISTANCE "OHM" IS OMITTED
(K=1000 OHMS, M=MEGAOHM).
2.THE UNIT OF ALL CAPACITORS ARE F WITH PREFIX SYMBOL
(u, P, ETC).

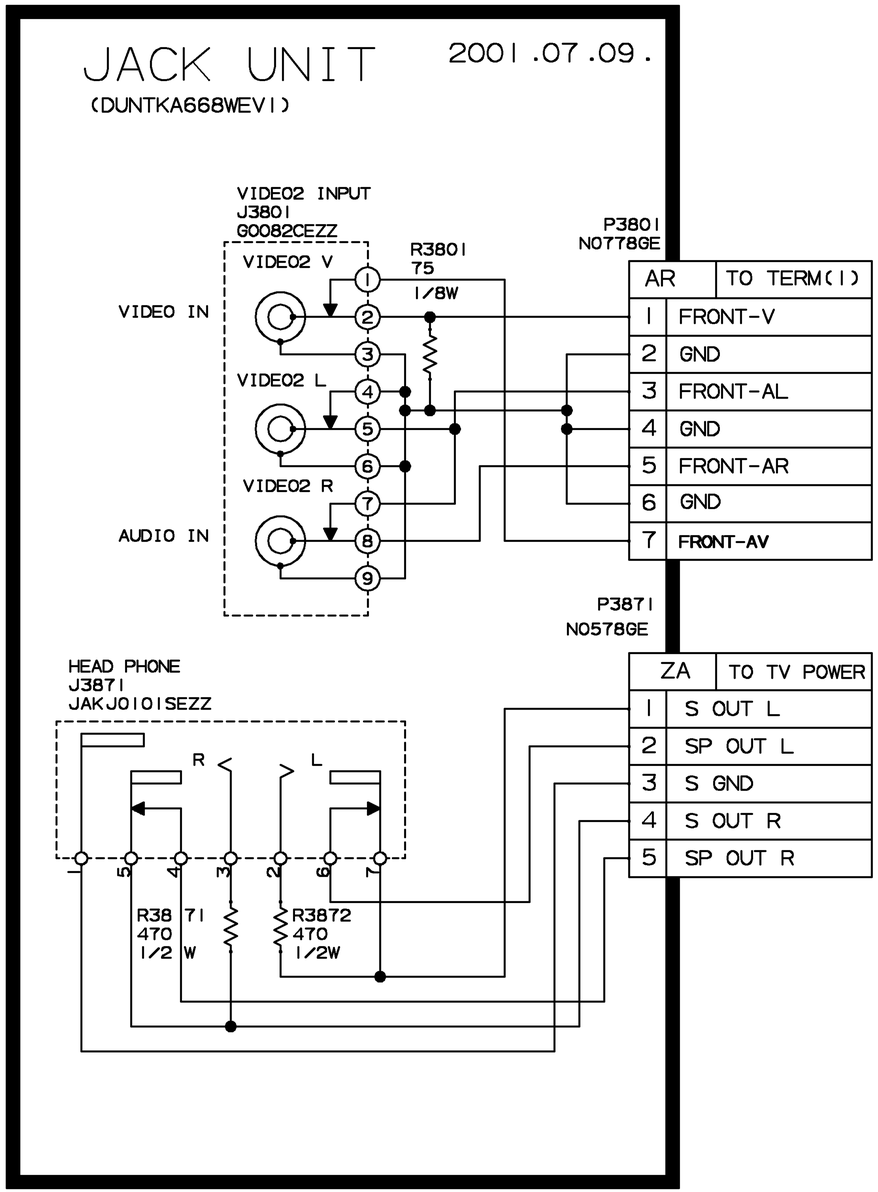
JACK(FRONT AV/HEAD PHONE)



B27TF680

NOTE: 1.THE UNIT OF RESISTANCE "OHM" IS OMITTED
(K=1000 OHMS, M=MEGAOHM).
2.THE UNIT OF ALL CAPACITORS ARE F WITH PREFIX SYMBOL
(u, P, ETC).

JACK(FRONT AV/HEAD PHONE)



B27TF680

MAIN(1) (SYSTEM-CONTROL) DUNTKA603WE

⚠ AND SHADED(▬▬) COMPONENTS = SAFETY RELATED PARTS.
▲ MARK = X-RAY RELATED PARTS.

NOTE:1. THE UNIT OF RESISTANCE "OHM" IS OMITTED (K=1000 OHMS, M=MEGAOHM)
2. ALL RESISTORS ARE 1/8 WATT, UNLESS OTHERWISE NOTED.
/ INDICATES CHIP-COMPONENT. 1/10W.
: INDICATES CHIP-COMPONENT. 1/16W.
3. UNIT OF ALL CAPACITORS ARE F WITH PREFIX SYMBOL. (u, P, ETC)
4. RATED VALUE OF ALL CAPACITORS ARE 50V, UNLESS OTHERWISE NOTED.
: INDICATES CHIP-COMPONENT.

2001.07.09.

MAIN PWB (view 1 of 3)

DUNTKA603WEV3 ... B27TF680

SYSTEM CONTROL ▲#5 IC2001 IX17339E

IC2005 PST994C AC PULSE RESET

IC2002 PST600H RESET

IC7006 LB11880+ or LB1988 LOADING/DRUM M DRIVER IC

IC2003 BR24C04F EEP-ROM

IC2004 BR24C08F EEP-ROM

Q2001 C1623L5 TV POWER

Q2002 A1271-Y RELAY DRIVE

Q7007 PX02522E TAKEUP REEL SENSOR

Q7006 PX02522E SUPPLY REEL SENSOR

Q7009 CAM SW B PX0311GE

Q7008 CAM SW A PX0311GE

Q7001 PX02330E START SENSOR

Q7002 PX02330E END SENSOR

Q8301 C1623L5

Q8304 C1623L5

Q8303 C1623L5

Q8302 C1623L5

Q7011 C1623L5

Q7010 C1623L5

Q7020 C1623L5 INVERTER

Q9101 2SA1271-Y

Q9102 KRC102S

Q9103 2SA812-M

Q9104 KRC102S

D8311 PX0446CE POWER

D8313 PX0374CE PROGRAM

D8314 PX0374CE ON TIMER EVENT

D8312 PX0374CE RECORD

D7001 PX0270JE CASSETTE LED

D7007 PX02522E TAKEUP REEL SENSOR

D7006 PX02522E SUPPLY REEL SENSOR

D7009 CAM SW B PX0311GE

D7008 CAM SW A PX0311GE

D2001 1SS119

D2002 1SS119

D2010 1SS119

D2011 1SS119

D2012 1SS119

D7010 1SS119

D7015 1SS119

RECEIVER RMC2002 UO259CEZZ

POWER SW S2002 P0620CE

ST001 F0042AJ REC TIP SW

JA7003 400160EPW

SC7003 N2295RE

SA	TO TERM(1)
1	B/W
2	EQ.S
3	YM
4	X-RAY
5	SAP(H)
6	SP_MUTE
7	SVM
8	NC
9	GND
10	EXT_IN
11	EXT OUT
12	OSD-R
13	OSD-B
14	OSD-G
15	OSD-BLK
16	GND
17	SYNC_DET
18	V-BLK
19	H-PULSE
20	GND
21	IIC_DATA
22	IIC_CLOCK

P3002 N0342CE

TO VCR CONTROL	OO
KEYIN 1	3
KEYIN 0	2
GND	1

SC7002 Z0292GE

MG	LOADING MOTOR	AL
	LOADING MOTOR ⊖	2
	LOADING MOTOR ⊕	1

SC7001 N0795RE

ME	DRUM MOTOR	AD
7	U OUT	1
6	V OUT	2
5	W OUT	3
4	M-COM	4
3	M-GND	5
2	D-PG -	6
1	D-PG +	7

P7001 Z0863GE

MC	CAPSTAN MOTOR	AC
1	GND	1
2	MOTOR GND	2
3	CURR_LIMIT	3
4	CAPSTAN CTL	4
5	MOTOR Vcc	5
6	CAPSTAN FG	6
7	CAP RVS (L)	7
8	PC5V	8

P7006 N0578GE

DB	TO DVD SUB
1	R/C_PULSE
2	GND
3	Y/C_CLOCK
4	Y/C_DATA
5	STBY_P-CON

P7007 N0978GE

OC	TO DVD/ VCR_POWER
1	AC-50/60-TC
2	GND
3	GND
4	AT5V(2)
5	AT5V(1)
6	PC23V
7	MOTOR-GND
8	PC12V
9	P-CON(H)

P7005 N0361CE

OR	TO TV POWER
1	RLY-DRIVE
2	SHORT PROTECT
3	GND

TO MAIN(2)

TO MAIN(2)

TO MAIN(3)

B27TF680 MAIN(2) (Y/C/AUDIO) DUNTKA603WE

AND SHADED( ) COMPONENTS = SAFETY RELATED PARTS.
▲ MARK = X-RAY RELATED PARTS.

NOTE:
1. THE UNIT OF RESISTANCE "OHM" IS OMITTED (K=1000 OHMS, M=MEGAOHM)
2. ALL RESISTORS ARE 1/8 WATT, UNLESS OTHERWISE NOTED.
   / INDICATES CHIP-COMPONENT. 1/10W.
   ! INDICATES CHIP-COMPONENT. 1/16W.
3. UNIT OF ALL CAPACITORS ARE F WITH PREFIX SYMBOL. (u, P, ETC)
4. RATED VALUE OF ALL CAPACITORS ARE 50V. UNLESS OTHERWISE NOTED.
   ! INDICATES CHIP-COMPONENT.

MAIN PWB (view 2 of 3) 2001.07.09.

DUNTKA603WEV3 ... B27TF680

IC2201 HA8317NF or HA8317F Y/C AUDIO PROCESSOR

Q5501 C1623L5 E,F

Q5502 C1623L5 E,F

Q2201 C1623L5 E,F

JA5501 1001CEFW

X5501 B02046E or B02656E

Q3306 AB12-M E,F

Q3302 D1306-E HEAD SHORT

Q6608 KRC104S AUDIO HEAD SW

Q6609 KRC104S AUDIO HEAD SW

Q6607 KRA102S AUDIO HEAD SW

Q6605 2SC2712Y AUDIO HEAD SW

Q6606 2SC2712Y AUDIO HEAD SW

Q6602 C3203Y BIAS OSC

Q6603 C1623L5 BIAS OSC

Q6604 KRC104S FHTRAP

Q9111 BT443TV

Q9112 KRC102S

T6601 H00988E

P3301 N044TRE

SC3301 N091IRE

MZ	TO DRUM	AH
1	HIFI CH1	9
2	HIFI CH2	8
3	HIFI REC	7
4	SP (L)	6
5	SP (R)	5
6	SP REC	4
7	LP,EP (R)	3
8	LP,EP (L)	2
9	LP,EP REC	1

SC6801 N099SRE

MH	TO A/C HEAD	AA
1	CTL +	6
2	CTL -	5
3	AUDIO HEAD (REC)	4
4	AUDIO HEAD (PB)	3
5	AE HEAD	2
6	AE HEAD	1

SC6802 Z02930E

MJ	TO FE HEAD	AE
1	FE HEAD	1
2	ERASE GND	2

TO MAIN(3)
HIFI_HEAD_REC
HIFI_HEAD_CH2
HIFI_HEAD_CH1

TO MAIN(1)
CTL_-
CTL_+

TO MAIN(1)
ATSV
CC_VIDEO
V-H.SW.P
ATR_DATA
EP_REC(H)
PB_CTL_OUT
Y/C_DATA
Y/C_CLOCK
FV_PULSE
EP(H)
PC12V
P-CON(H)
BIAS_CTL(H)
SL_REC(H)

TO MAIN(3)
VCR_REC_C
VCR_PB_C
VCR_PB_Y
VCR_REC_VIDEO
FSC
NA-PB
NA-REC
PC5V(2)

CCD AREA

B27TF680

MAIN (3) (HiFi AUDIO) DUNTKA603WE

⚠ AND SHADED(▬) COMPONENTS = SAFETY RELATED PARTS.
▲ MARK = X-RAY RELATED PARTS.

NOTE:
1. THE UNIT OF RESISTANCE "OHM" IS OMITTED (K=1000 OHMS, M=MEGA(OHM))
2. ALL RESISTORS ARE 1/8 WATT. UNLESS OTHERWISE NOTED.
   / INDICATES CHIP-COMPONENT. 1/10W.
   : INDICATES CHIP-COMPONENT. 1/16W.
3. UNIT OF ALL CAPACITORS ARE F WITH PREFIX SYMBOL. (u, P, ETC)
4. RATED VALUE OF ALL CAPACITORS ARE 50V. UNLESS OTHERWISE NOTED.
   : INDICATES CHIP-COMPONENT.

2001.07.09.

MAIN PWB (view 3 of 3)

DUNTKA603WEV3 ... B27TF680

TO MAIN(1)

PC12V
AT5V
A-H.SW.P
NOR_DET
BIAS_CTL(H)
VCR_AUDIO_MUTE(H)
IIC_CLOCK
IIC_DATA
F_MONO
VCR_MTS_DET

TV_TUNER_AFT
VCR_TUNER_AFT
TV_AUDIO_MUTE(H)

TO MAIN(2)

VCR_REC_C
VCR_PB_C
VCR_PB_Y
VCR_REC_VIDEO
FSC
NA-PB
NA-REC
PC5V(2)

SC6651
N22956E

TO TERMINAL(1)	SB
VCR_PB_Y	1
GND	2
VCR_PB_C	3
GND	4
VCR_PB_AUDIO(L)	5
GND	6
VCR_PB_AUDIO(R)	7
GND	8
TV_TUNER_AFT	9
GND	10
VCR_REC_C	11
GND	12
VCR_REC_VIDEO	13
GND	14
VCR_REC_AUDIO(L)	15
TV_AUDIO_MUTE(H)	16
VCR_REC_AUDIO(R)	17
GND	18
COMP_SW	19
VCR_MTS_DET	20
VCR_TUNER_AFT	21
F_MONO	22

Q6653 KRA104S
Q6654 KRC104S
Q6651 D1306-E
Q6652 D1306-E

P2202 NO76ICE
TP6601 PB AL
TP6602 GND
TP6603 PB AR
TP2202 GND
TP2201 VIDEO-OUT
TP6502 PC5V
TP5501 C-OUT

IC6651
AN3651FB
HIFI AUDIO PROCESSOR

TO MAIN(2)

HIFI_HEAD_CH1
HIFI_HEAD_CH2
HIFI_HEAD_REC

T27TF668

VCR POWER DUNTKA637WE

⚠ AND SHADED(▬) COMPONENTS = SAFETY RELATED PARTS.

NOTE: 1.THE UNIT OF RESISTANCE "OHM" IS OMITTED (K=1000 OHMS, M=MEGAOHM).
2.THE UNIT OF ALL CAPACITORS ARE F WITH PREFIX SYMBOL (u, P, ETC).

2001.09.07

PC12V
Q9074
A1271-Y

Q9075
KRC103M

C9073 10u 16V

R9076 470 1/2W

R9075 10K 1/8W

IC9051
T78DL09S
9V REG
OUT GND IN

W9006
R0104AJFW

Q9076
KRC102M

C9075 10u 16V

R9085 10K 1/8W

R9086 470 1/4W

D9075
1SS119

PC9V
Q9077
A1271-Y

C9056 100u 16V

C9065 10u 16V

R9051 10K 1/8W

PC5V
Q9065
A1271-Y

R9052 470 1/8W

D9065
1SS119

FB9002
0090GE

D9010
1F4G

0088AJ
0036CE

D9011
1F4G

FB9001
0090GE

L9002
10uH
P0147GE

C9012 10u 10V

D9001
FR154GL+

C9001 470u 35V

C9011 470u 35V

C9002 330u 25V

C9003 22u 50V

D9003
1F4G

R9001 0

L9001
10uH
P0184CE

C9006 2200u 10V

C9004 2200u 10V

D9004
DX0436CE

W9005
R0104AJFW

R9003 0 1001CEFW

R9004 220 1/8W

R9006 1K 1/8W

C9009 0.1u (ML) 50V

C9010 0.1u (ML) 50V

R9005 2.7K 1/8W

R9007 3.3K 1/8W

R9009 1K 1/8W

R9010 1K 1/8W

D9006
MM1431AT
or KIA431

R9015 470 1/8W

D905
FX0034CE
or FX0008GE

T901
W0022AJ

R9774 1K 1/8W

IC901
FX0047CE
TC DETECTOR

D906
DX0441CE
DX0279CE
DX0442CE
DX0443CE

C913 0.01u 50V

R915 47K 1/2W

R914 47K 1/2W

P901
N0360CE

EB	TO TV POWER
1	R
2	NC
3	B

L903
F0314CE
(LFZ3508TV07)

HM185
GZ3001PE

HM186
GZ3001PE

HM184
GZ3001PE

HM183
GZ3001PE

L902
F0313CE
(LFZ2805V13)

HM97
GZ3002PE

HM98
GZ3002PE

HM96
GZ3002PE

HM95
GZ3002PE

C901
0.22u
FZ037SCE

FH2
1014CEZZ

FH1
1013CEZZ

F901
B832ICEZZ
6.3A FUSE

R902
3.9M 1/2W

VA901
VX0019CE
(ENC241)

QACCD3064CESA
60Hz
AC120V
AC CORD

R904
3.9M 1/2W

C904
0.1
250VAC
FZ036SCE

C911
150P
250VAC
00988EZZ
KZA008WJ

C912
150P
250VAC
00988EZZ
KZA008WJ

TO TERM(1)
P52

P903
M0083CE

L901
F0320GE

D901
DX0083GE

C902
0.1uF
250V
FZ036SCE

R903
2.2 2W
R-WZ0017GEZZ
or R-WZ0002GE

C906
0.047u
400V
YZP2GA473K

R905
68K
2W

R906
1M
1/2W

R907
1M
1/2W

C907
330P
2kV
KZ0112GE

D902
1F4G

C905
100u
200V
EZ0463GE

Q901
K262 4LS

C908
100P
1kV
KZ011 2CE F5

W901
021AJFW

R908
220K
1/8W

R909
0.56
2W

R910
680
1/2W

C909
5600P
ML
50V

Q902
D2144S

C910
2200P
50V
ML

R911
560
1/2W

D903
1SS119

D904
EX0645GE

R912
18K
1/8W

R913
22K 1/8W

P9001
N0578GE

TO TERM(1)	SC
PC5 V	1
PC 9V	2
33V	3
	4
GND	5

(AT33V)

R9012
1.5K
1W

P9003
N0978GE

TO MAIN(1)	OC
AC-50/60-TC	1
GND	2
GND	3
AT5V(2)	4
AT5V(1)	5
PC23V	6
MOTOR-GND	7
PC12V	8
P-CON(H)	9

(AC-50/60-TC)

C9062
100u
16V

C9061
100u
6.3V

(PC23V)

IC9021
PQ15RW11
W9004 R0103AJFW
5.2V REG
OUT IN

R9021
1.5K F 1/8W

R9022
1.5K F 1/8W

C9021
100u
6.3V

PC23V
Q9078
B1443TV

R9080
1.8K 1/2W

R9079
10K 1/8W

Q9079
KRC102M

T27TF668

VCR POWER DUNTKA637WE

⚠ AND SHADED(▬) COMPONENTS = SAFETY RELATED PARTS.

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2001.09.07

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A1271-Y

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KRC103M

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T78DL09S
9V REG
OUT GND IN

W9006
R0104AJFW

Q9076
KRC102M

C9075 10u 16V

R9085 10K 1/8W

R9086 470 1/4W

D9075
1SS119

PC9V
Q9077
A1271-Y

C9056 100u 16V

C9065 10u 16V

R9051 10K 1/8W

PC5V
Q9065
A1271-Y

R9052 470 1/8W

D9065
1SS119

FB9002
0090GE

D9010
1F4G

0088AJ
0036CE

D9011
1F4G

FB9001
0090GE

L9002
10uH
P0147GE

C9012 10u 10V

D9001
FR154GL+

C9001 470u 35V

C9011 470u 35V

C9002 330u 25V

C9003 22u 50V

D9003
1F4G

R9001 0

L9001
10uH
P0184CE

C9006 2200u 10V

C9004 2200u 10V

D9004
DX0436CE

W9005
R0104AJFW

R9003 0 1001CEFW

R9004 220 1/8W

R9006 1K 1/8W

C9009 0.1u (ML) 50V

C9010 0.1u (ML) 50V

R9005 2.7K 1/8W

R9007 3.3K 1/8W

R9009 1K 1/8W

R9010 1K 1/8W

D9006
MM1431AT
or KIA431

R9015 470 1/8W

D905
FX0034CE
or FX0008GE

T901
W0022AJ

R9774 1K 1/8W

IC901
FX0047CE
TC DETECTOR

D906
DX0441CE
DX0279CE
DX0442CE
DX0443CE

C913 0.01u 50V

R915 47K 1/2W

R914 47K 1/2W

P901
N0360CE

EB	TO TV POWER
1	R
2	NC
3	B

L903
F0314CE
(LFZ3508TV07)

HM185
GZ3001PE

HM186
GZ3001PE

HM184
GZ3001PE

HM183
GZ3001PE

L902
F0313CE
(LFZ2805V13)

HM97
GZ3002PE

HM98
GZ3002PE

HM96
GZ3002PE

HM95
GZ3002PE

C901
0.22u
FZ037SCE

FH2
1014CEZZ

FH1
1013CEZZ

F901
B832ICEZZ
6.3A FUSE

R902
3.9W 1/2W

VA901
VX0019CE
(ENC241)

QACCD3064CESA
60Hz
AC120V
AC CORD

R904
3.9W 1/2W

C904
0.1
250VAC
FZ036SCE

C911
150P
250VAC
00988EZZ
KZA008WJ

C912
150P
250VAC
00988EZZ
KZA008WJ

TO TERM(1)
P52

P903
M0083CE

L901
F0320GE

D901
DX0083GE

C902
0.1uF
250V
FZ036SCE

R903
2.2 2W
R-WZ0017GEZZ
or R-WZ0002GE

C906
0.047u
400V
YZP2GA473K

R905
68K
2W

R906
1M
1/2W

R907
1M
1/2W

C907
330P
2kV
KZ0112GE

D902
1F4G

C905
100u
200V
EZ0463GE

Q901
K262 4LS

C908
100P
1kV
KZ011 2CE F5

W901
021AJFW

R908
220K
1/8W

R909
0.56
2W

R910
680
1/2W

C909
5600P
ML
50V

Q902
D2144S

C910
2200P
50V
ML

R911
560
1/2W

D903
1SS119

D904
EX0645GE

R912
18K
1/8W

R913
22K 1/8W

P9001
N0578GE

TO TERM(1)	SC
PC5 V	1
PC 9V	2
33V	3
	4
GND	5

(AT33V)

R9012
1.5K
1W

P9003
N0978GE

TO MAIN(1)	OC
AC-50/60-TC	1
GND	2
GND	3
AT5V(2)	4
AT5V(1)	5
PC23V	6
MOTOR-GND	7
PC12V	8
P-CON(H)	9

(AC-50/60-TC)

IC9021
PQ15RW11
W9004 R0103AJFW
5.2V REG
OUT IN

R9021
1.5K F 1/8W

R9022
1.5K F 1/8W

C9021 100u 6.3V

C9061 100u 6.3V

C9062 100u 16V

(PC23V)

PC23V
Q9078
B1443TV

R9079 10K 1/8W

R9080 1.8K 1/2W

Q9079
KRC102M

B27TF680 TERM(1) DUNTKA640WE

2001.09.14

TERMINAL PWB (view 1 of 2)

DUNTKA640WEV2 ... T27TF668
DUNTKA640WEV1 ... B27TF680

⚠ AND SHADED(▬) COMPONENTS = SAFETY RELATED PARTS.
▲ MARK = X-RAY RELATED PARTS.

NOTE: 1. THE UNIT OF RESISTANCE "OHM" IS OMITTED
(K=1000 OHMS, M=MEGAOHM)
2. ALL RESISTORS ARE 1/8 WATT. UNLESS OTHERWISE NOTED.
: INDICATES CHIP-COMPONENT. 1/16W.
3. UNIT OF ALL CAPACITORS ARE F WITH PREFIX SYMBOL.
(u, P, ETC)
4. RATED VALUE OF ALL CAPACITORS ARE 50V. UNLESS OTHERWISE NOTED.
: INDICATES CHIP-COMPONENT.

SC1302 N2295RE

TO MAIN(3)	SB
VCR_PB_Y	1
GND	2
VCR_PB_C	3
GND	4
VCR_PB_AUDIO(L)	5
GND	6
VCR_PB_AUDIO(R)	7
GND	8
TV_TUNER_AFT	9
GND	10
VCR_REC_C	11
GND	12
VCR_REC_VIDEO	13
GND	14
VCR_REC_AUDIO(L)	15
TV_AUDIO_MUTE(H)	16
VCR_REC_AUDIO(R)	17
GND	18
COMP_SW	19
VCR_MTS_DET	20
VCR_TUNER_AFT	21
F_MONO	22

SC1303 N2295RE

TO MAIN(1)	SA
B/W	1
EQ.S	2
YM	3
X-RAY	4
SAP(H)	5
SP_MUTE	6
SVM	7
NC	8
GND	9
EXT_IN	10
EXT_OUT	11
OSD-R	12
OSD-B	13
OSD-G	14
OSD-BLK	15
GND	16
SYNC_DET	17
V-BLK	18
H-PULSE	19
GND	20
IIC_DATA	21
IIC_CLOCK	22

P1302 N05788E

TO DVD/ VCR POWER	SC
PC 5V	1
PC 9V	2
33V	3
PC-19V	4
GND	5

SC1301 Z06309E

TO TV POWER	XC
GND	1
GND	2
IIC_CLOCK	3
IIC_DATA	4
EXT	5
EXT_LED	6

TO TV POWER P51 M00803E

CNW-A206WJ K51

TO DVD/ VCR POWER P903

J1301 J0660CE: LINE1 VIN, MONITOR VOUT, SIN L, SOUT L, SIN R, SOUT R

IC1301 CXA2079Q: DVD, FRONT (INPUT 3), (INPUT 4), REAR (INPUT 2), VTR PB (INPUT 1), TV, VCR TUNER TV TUNER

IC1451 MM1510XN VIDEO DRIVER

IC1902 KA7805AP 5V(B) REGULATOR

IC3601 CXA2064M MTS DECODER

IC1951 NJM2230M SYNC DETECT

TUNER-A TU2101 VTBT5UR202

TUNER-B TU1951 VTBT5UB202

Q4907 KRC102S

P1301 N07788E

AR	TO JACK
1	FRONT-V
2	GND
3	FRONT-AL
4	GND
5	FRONT-AR
6	GND
7	FRONT-AV

P3001 Z08609E

	TO TERM-SUB
8	AUDIO_OUT(R)
7	AUDIO_OUT(L)
6	GND
5	TV_AUDIO(L)
4	TV_AUDIO(R)
3	GND
2	MTS_AUDIO(L)
1	MTS_AUDIO(R)

P3002 Z08609E

	TO TERM-SUB
8	GND
7	MTS_IN
6	GND
5	COMPOSITE_VIDEO
4	GND
3	YC_SEPA_Y
2	GND
1	YC_SEPA_C

P1401 Z06809E

	TO TERM-SUB
8	B/W
7	EQ.S
6	GND
5	IIC_CLOCK
4	IIC_DATA
3	PC5V
2	PC9V
1	FSC

TO TERM(2)

JB327 3001CEFW

	TO TERM(2)
8	+5V(C)
7	+9V(C)
6	PC-19V
5	DVD_COMP_AUDIO(L)
4	DVD_COMP_AUDIO(R)
3	COMP_Y/DVD_VIDEO
2	COMP_CR/DVD_Y
1	COMP_CB/DVD_C
	TV_Y
	TV_C
	VD
	HD
	SVM
	OSD-R
	OSD-G
	OSD-B
	OSD-BLK
	X-RAY
	SP_MUTE
	FSC
	+8V
	TV_TUNER_33V
	VCR_5V

B27TF680 TERM(2) DUNTKA640WE

⚠AND SHADED( ) COMPONENTS = SAFETY RELATED PARTS.
▲ MARK = X-RAY RELATED PARTS.

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(K=1000 OHMS, M=MEGAOHM)
2. ALL RESISTORS ARE 1/8 WATT. UNLESS OTHERWISE NOTED.
: INDICATES CHIP-COMPONENT. 1/16W.
3. UNIT OF ALL CAPACITORS ARE F WITH PREFIX SYMBOL.
(u, P, ETC)
4. RATED VALUE OF ALL CAPACITORS ARE 50V. UNLESS OTHERWISE NOTED.
: INDICATES CHIP-COMPONENT.

2001.09.14

TERMINAL PWB (view 2 of 2)

DUNTKA640WEV1 ... T27TF668
DUNTKA640WEV2 ... B27TF680

AUDIO DIGTAL OUT J2602 J0410AJZZ
AUDIO OPTICAL OUT P2604 GP1F32T
NO0440EZZ FL2801
IC2602 TC4W53F
Q2617 KRC103S
Q2618 C1623L5
IC4402 BR24C04F EEP-ROM
IC4740 KA7809AP 9V REGULATOR
IC4741 KA7805AP 5V REGULATOR
IC4401 IX3113CE (TA1276AN) PIF.SIF.CHROMA VIDEO.DEFLECTION
IC2501 Z86129S+ C.C DECORDER
Q4404 K30AG SVM LEVEL CONT
Q4405 C1623L5 VIDEO AMP
Q4409 C1623L5 FINE AMP
Q4410 C3198-Y FINE DRIVER
Q4406 C1623L5 BUFFER
Q4403 A1266-Y ABL
Q2808 C1623L5 X-RAY PROTECTOR
Q2501 C1623L5 C.BUFFER

P2601 N02780E
TO DVD SUB	DF
SPDIF	1
GND	2

P2602 N12780E
TO DVD SUB	DA
DVD_PB- Y	1
D-V-GND	2
DVD_PB- C	3
D-V-GND	4
DVD_PB- CVBS	5
D-V-GND	6
DVD_AUDIO(L)	7
D-A-GND	8
DVD_AUDIO(R)	9
D-GND	10
RXD2	11
RXDCTL	12

P4603 N0961CE
WA	TO DEF
1	TV9V
2	V-BLK
3	GND
4	IIC_DATA
5	IIC_CLOCK
6	VP_OUT
7	+14V
8	NC
9	NC

P4604 N0681CE
BA	TO DEF
1	H-DRIVE
2	GND
3	H-PULSE
4	GND
5	PROTECTOR
6	ABL

P4801 N0861CE
GBN	TO CRT
1	GND
2	9V
3	GND
4	R
5	G
6	B
7	GND
8	VM SIG

SC1803 Z1040CE
XB	TO TV POWER
1	SP_MUTE
2	GND
3	+8V
4	R(VAO)
5	GND
6	L(VAO)
7	GND
8	TV_TUNER_33V
9	GND
10	12V

TO TERM(1)
L(VAO) R(VAO) +5V(C) +9V(C) IIC_CLOCK IIC_DATA
PC-19V DVD_COMP_AUDIO(L) DVD_COMP_AUDIO(R) COMP_Y/DVD_VIDEO COMP_CR/DVD_Y COMP_CB/DVD_C TV_Y TV_C VD HD SVM
OSD-R OSD-G OSD-B OSD-BLK
X-RAY SP_MUTE FSC +8V TV_TUNER_33V VCR_5V

B27TF680

TERM-SUB

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TERMINAL-SUB PWB 2001.07.09.

(DUNTKA680WEV1) ... T27TF668 / B27TF680

TO TERM (1)	SC3001 Z08609E
MTS_AUDIO(R)	1
MTS_AUDIO(L)	2
GND	3
TV_AUDIO(R)	4
TV_AUDIO(L)	5
GND	6
AUDIO_OUT(L)	7
AUDIO_OUT(R)	8

TO TERM (1)	SC3002 Z08609E
YC_SEPA_C	1
GND	2
YC_SEPA_Y	3
GND	4
COMPOSITE_VIDEO	5
GND	6
MTS_IN	7
GND	8

TO TERM (1)	SC1401 Z08609E
FSC	1
PC9V	2
PC5V	3
IIC_DATA	4
IIC_CLOCK	5
GND	6
EQ.S	7
B/W	8

IC3001
CXA2074Q
M.T.S

IC3201
AN5285K
EQ.SOUND CONTROL

IC1402
KA78L05B
5V(A) REGULATOR

IC1401
TC90A45F
DIGITAL COMB

IC1403
MM1502XN
SW/6dB AMP

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B27TF680 TV POWER DUNTKA639WE

2001.07.09.

IC6351 AN5277 (R0299PE) AUDIO OUT
RDA9703 R0299PEFW
NC | L-IN | R-FILTER | IN-GND | R-IN | NC | R-OUT | MUTE | OUT-GND | VCC | SY-BY | L-OUT
0 | 25.4 | 0 | 0 | 0 | 12.8 | 4.8 | 0 | 27.1 | 8.8 | 12.8 | 0

P6351 N0461CE
SE | TO SPEAKER
1 SPOUT-L+
2 SPOUT-L-
3 SPOUT-R+
4 SPOUT-R-

P6352 N0578GE
ZA | TO JACK
1 SOUT-L
2 SPOUT-L
3 S-GND
4 SOUT-R
5 SPOUT-R

BUS CONTROL INPUT JACK
P9801 N0581CE

P9713 Z0613CE
XC | TO TERM(1)
1 GND
2 GND
3 IIC_CLOCK
4 IIC_DATA
5 EXT
6 EXT_LED

P9701 N0361CE
OR | TO MAIN(1)
1 RLY-DRIVE
2 SHORT PROTECT
3 GND

P9712 Z1040CE
XB | TO TERM(2)
1 SP_MUTE
2 GND
3 +8V
4 R(VAO)
5 GND
6 L(VAO)
7 GND
8 33V
9 GND
10 12V

P9711 N0561CE
GA | TO DEF
1 +13.0V
2 +13.0V
3 NC
4 GND
5 GND

P9702 N0360CE
TO DVD/VCR POWER | EB
R | 1
NC | 2
B | 3

P9705 N0260CE
M1
M2

IC9740 KA7812AP 12V REGULATOR F3014AJFW RDA9740

IC9701 STRF6629 RDA9701 R5222CEFW 120V REGULATOR

IC9702 FX0008GE ERROR AMP

IC974 SE130N ERROR AMP

PROTECTOR DRIVE Q9752 A1266-Y

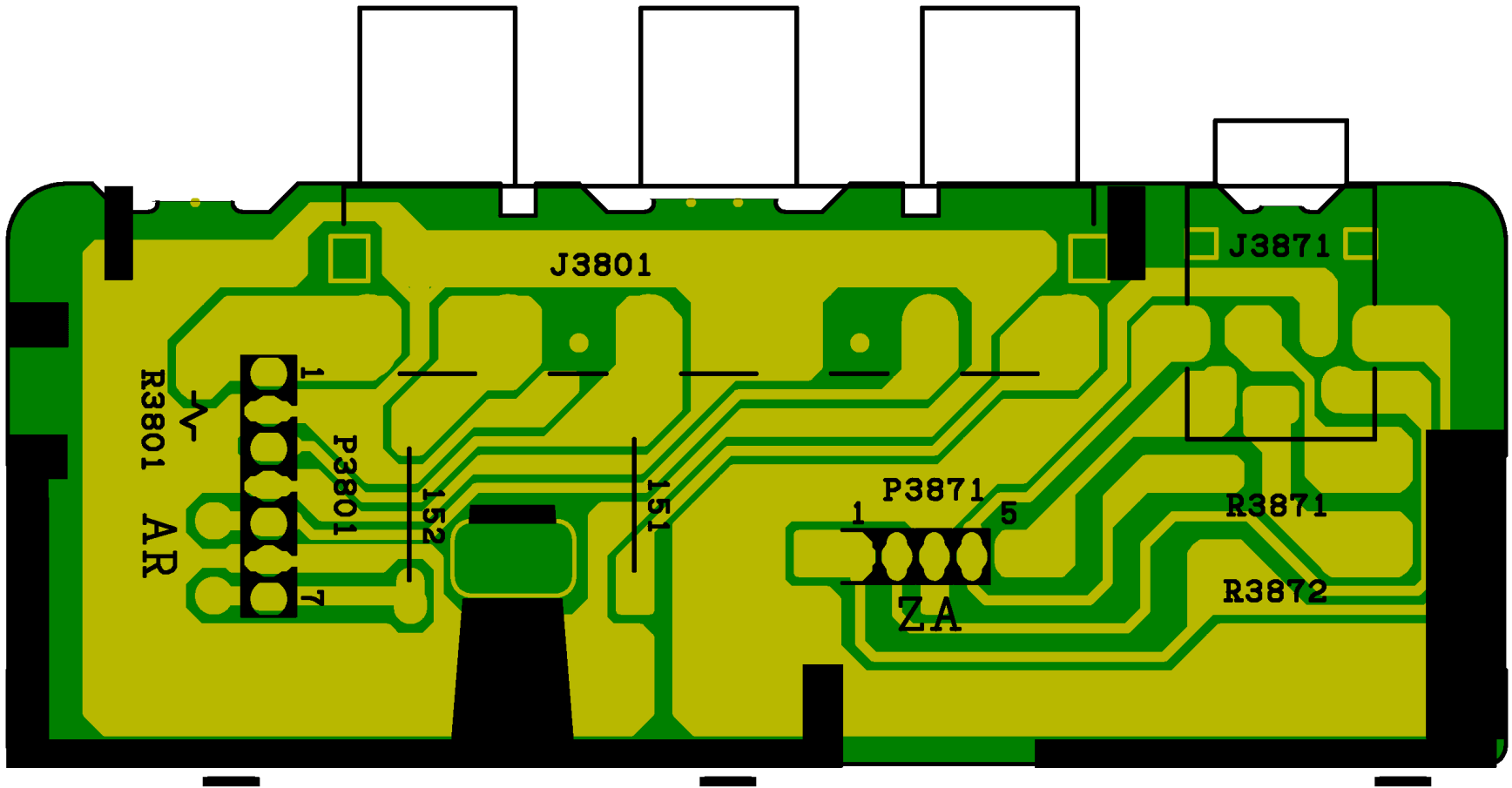
Q9740 C3198-Y TV/BS

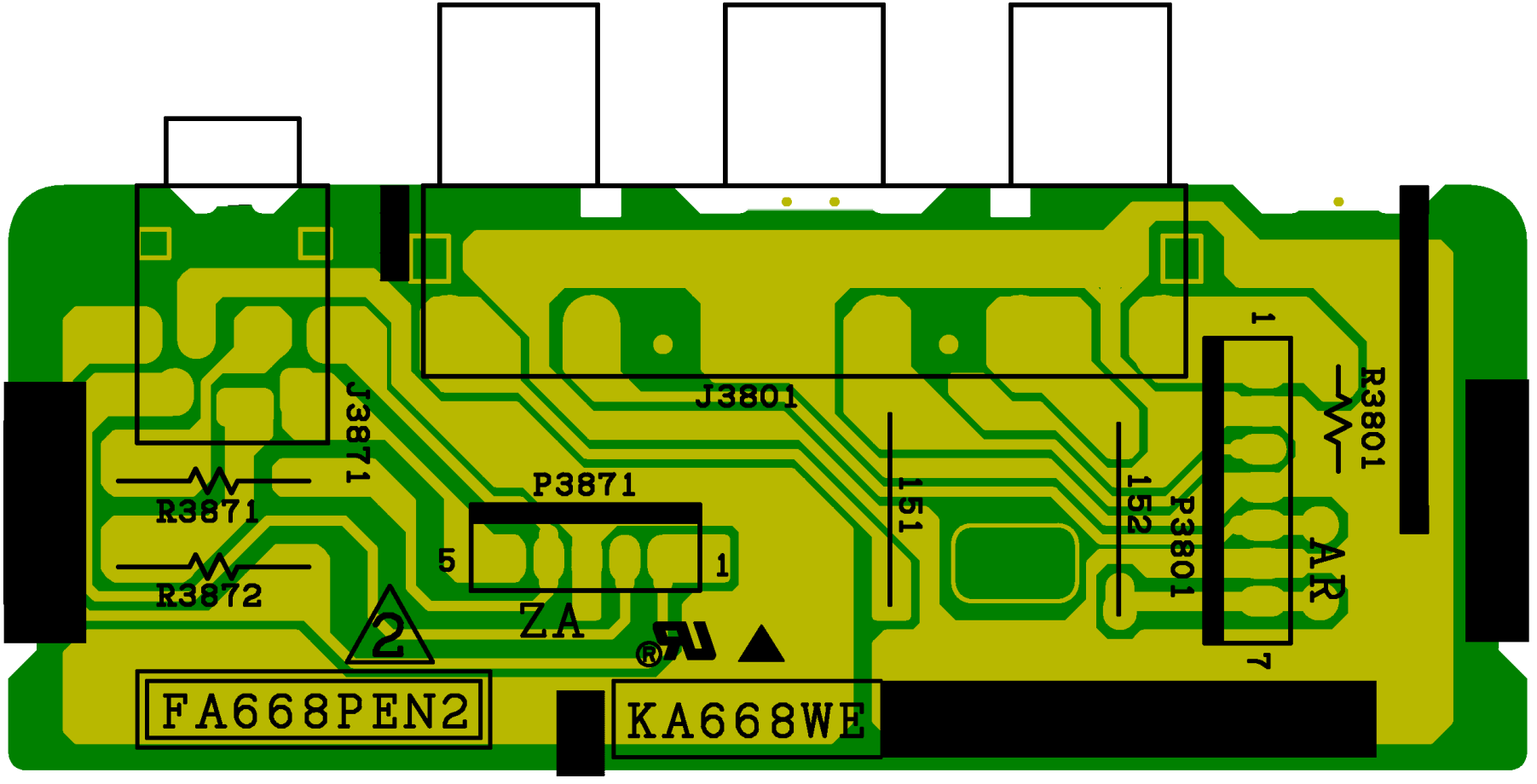
Q9741 C3198-G POWER CONTROL

(THIS AREA IS HOT SIDE.)

(THIS AREA IS COLD SIDE.)

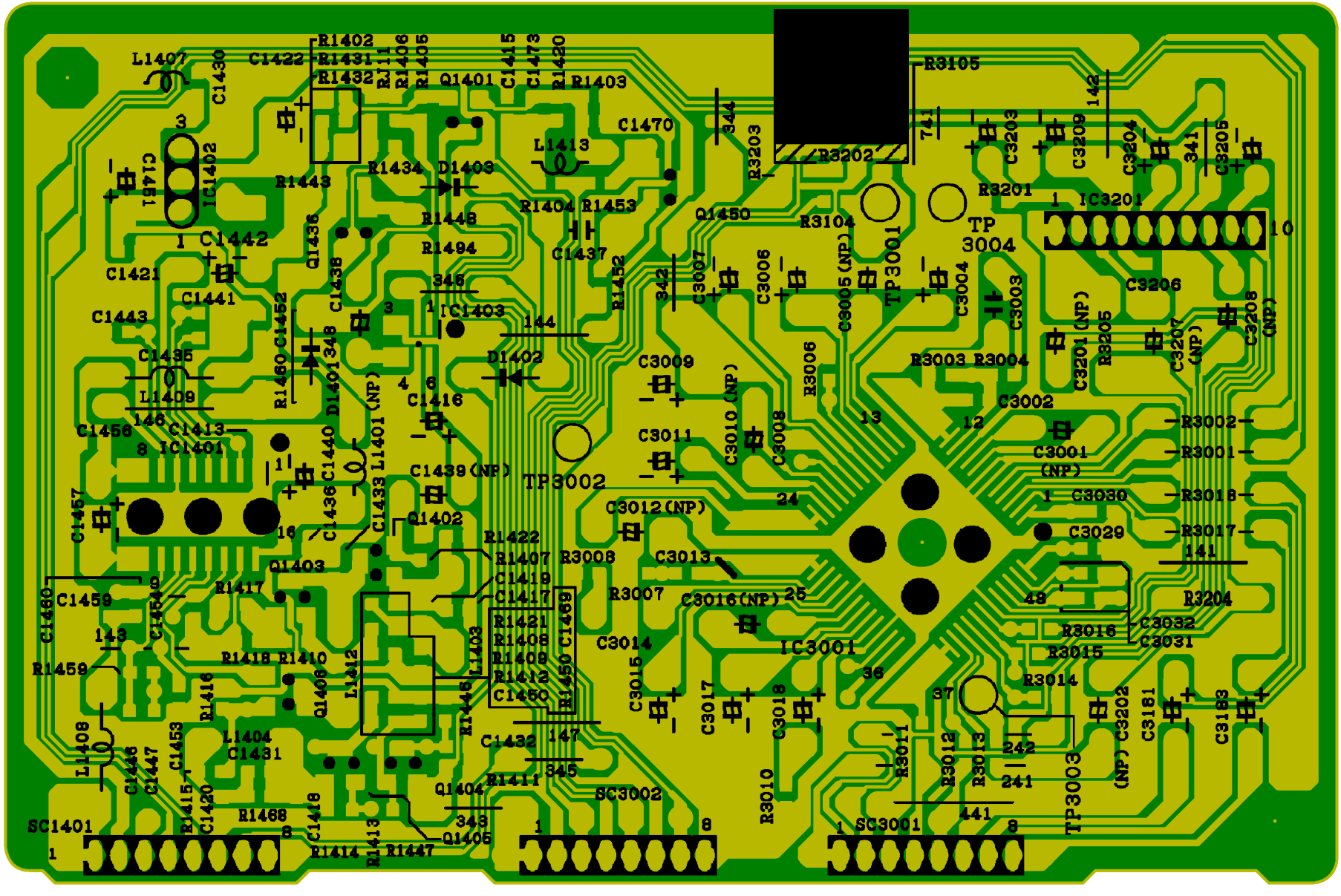
A/V Inputs Front (Bottom View)



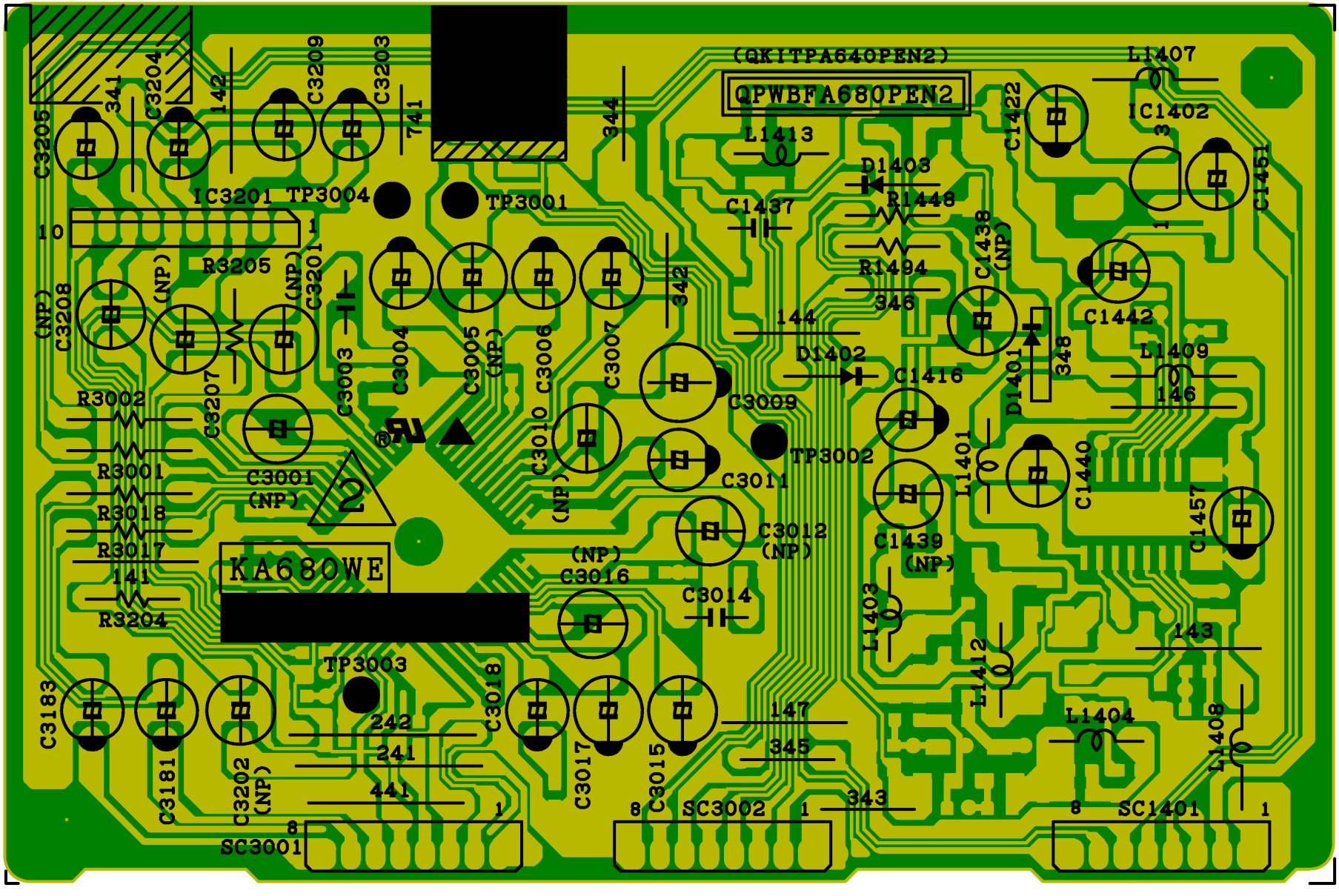


A/V Inputs Front (Top View)

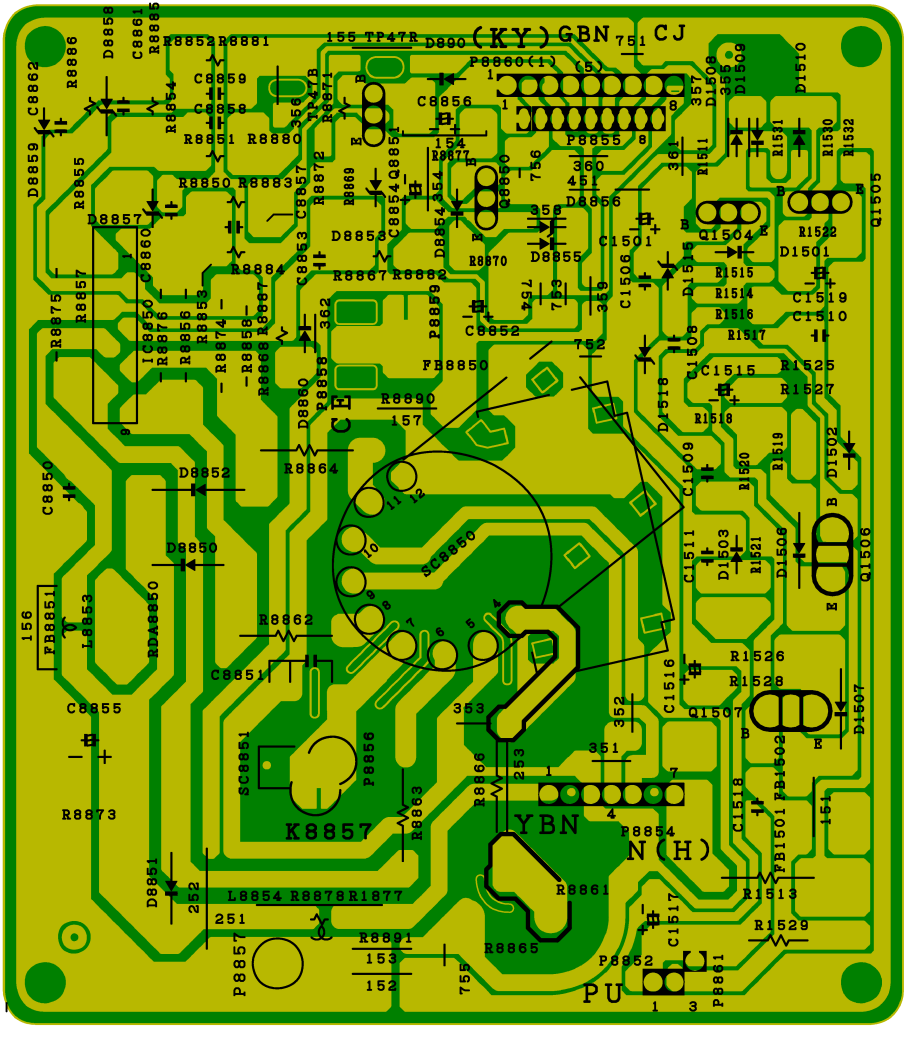
A/V Processor (Bottom View)



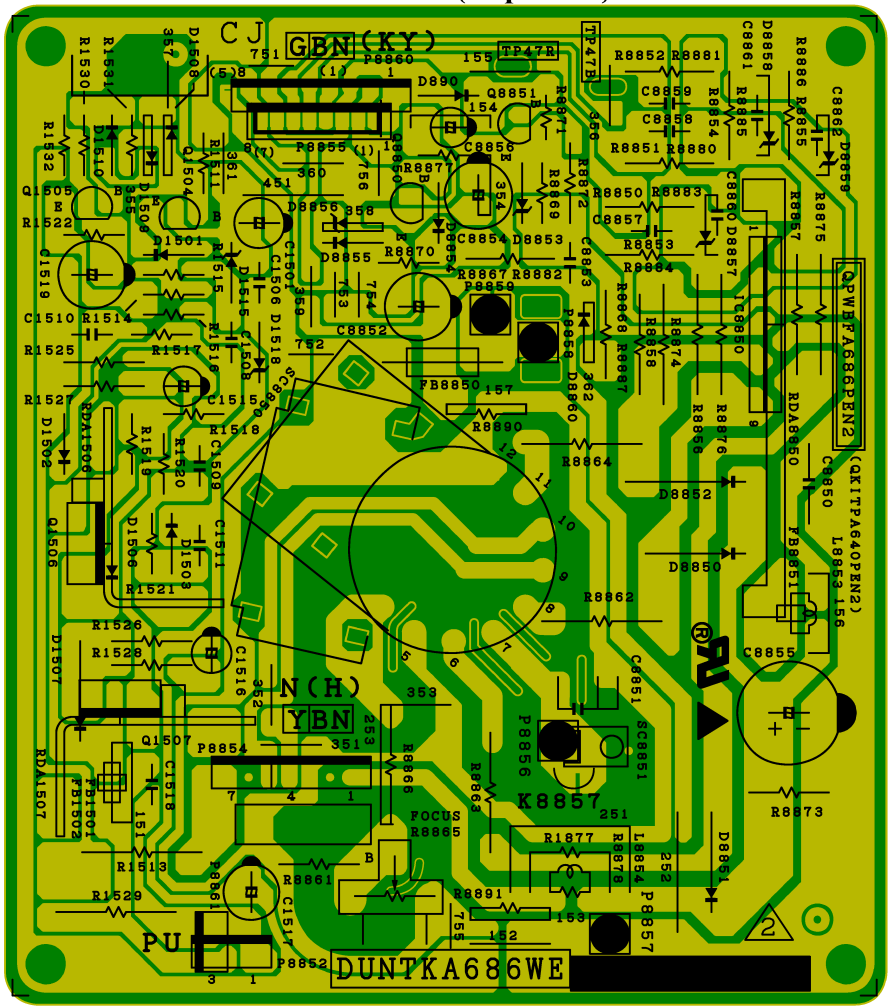
TERMINAL SUB Unit
A/V Processor (Top View)

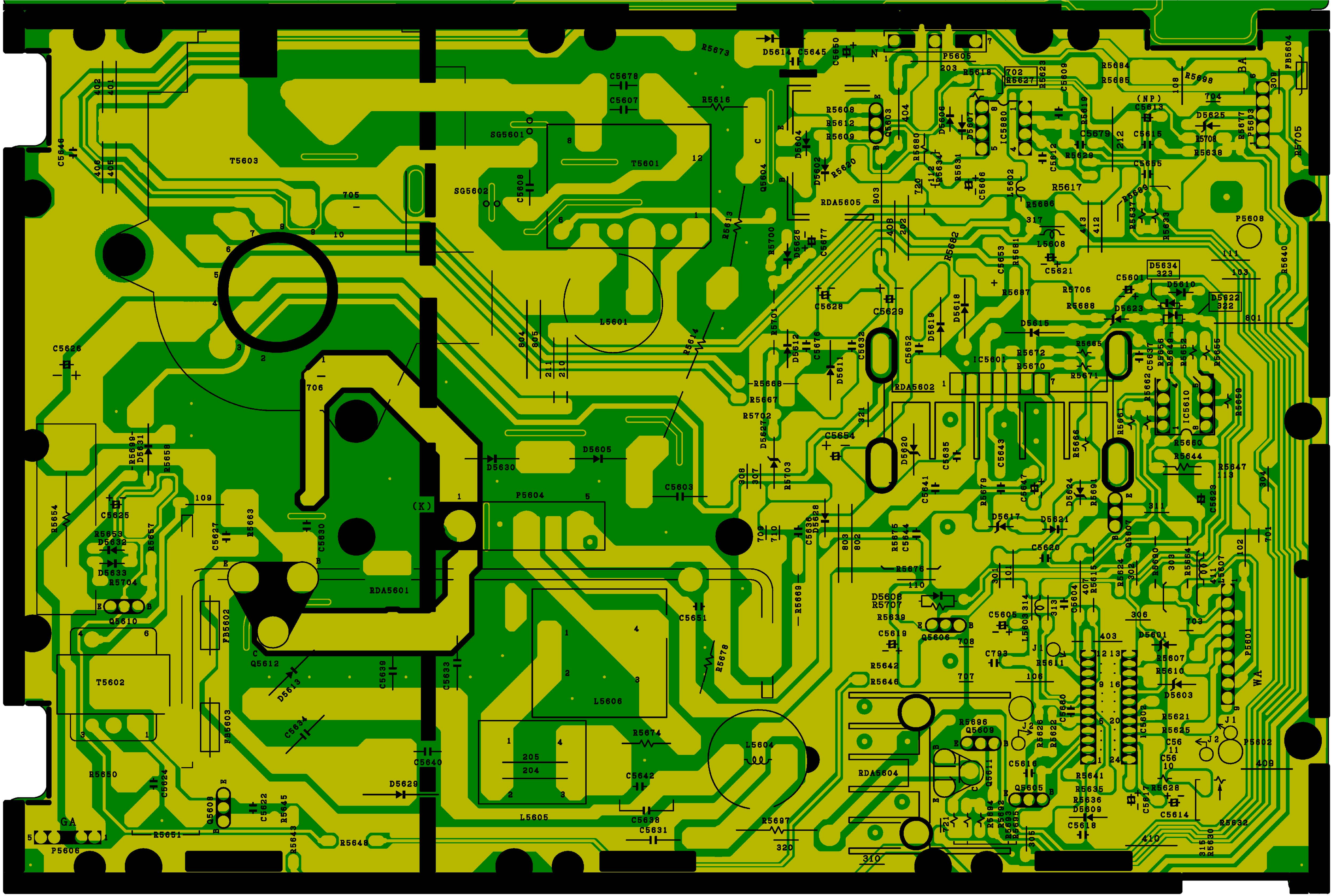


CRT Socket (Bottom View)



CRT Socket (Top View)




T5603
T5601
T5602
SG5601
SG5602
L5601
L5606
L5605
L5604
RDA5601
RDA5602
RDA5604
RDA5605
P5605
P5604
P5606
P5608
P5601
P5602
IC5880
IC5610
IC5602
Q5604
Q5603
Q5610
Q5612
Q5609
Q5606
Q5607
(K)
GA
WA
(NP)
R5673
R5616
R5613
R5614
R5700
R5701
R5668
R5667
R5702
R5703
R5704
R5705
R5706
R5707
R5708
C5678
C5607
C5608
C5646
C5626
C5625
C5627
C5630
C5639
C5633
C5634
C5640
C5624
C5622
C5645
C5643
C5603
C5651
C5628
C5629
C5676
C5632
C5652
C5654
C5635
C5642
C5638
C5631
C5677
C5653
C5621
C5601
C5623
C5615
C5613
C5612
C5679
C5605
C5619
C5616
C5618
C5620
C5641
C5644
C5636
C5637
C5660
C5602
C5614
C5617
C5607
C5604
C5611
C5610
C5609
C5608
C5606
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C5656
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C5658
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C5664
C5665
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C5668
C5669
C5670
C5671
C5672
C5673
C5674
C5675
C5680
C5681
C5682
C5683
C5684
C5685
C5686
C5687
C5688
C793
D5614
D5645
D5605
D5630
D5629
D5631
D5632
D5633
D5613
D5612
D5611
D5604
D5602
D5606
D5607
D5618
D5619
D5620
D5617
D5621
D5615
D5625
D5634
D5610
D5622
D5623
D5624
D5626
D5627
D5628
D5603
D5609
D5608
FB5602
FB5603
FB5604
R5654
R5655
R5656
R5657
R5658
R5659
R5660
R5661
R5662
R5663
R5664
R5665
R5666
R5667
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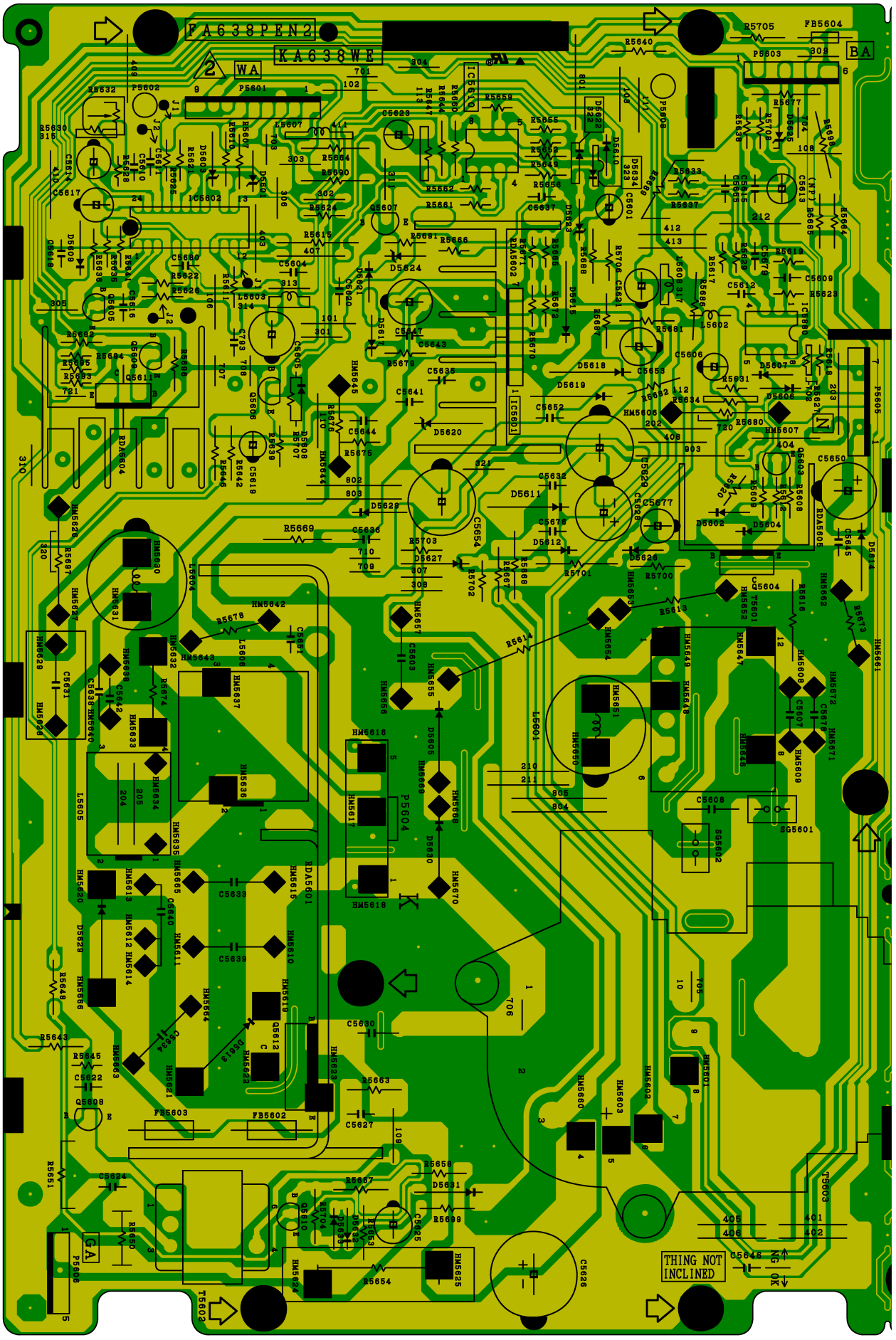
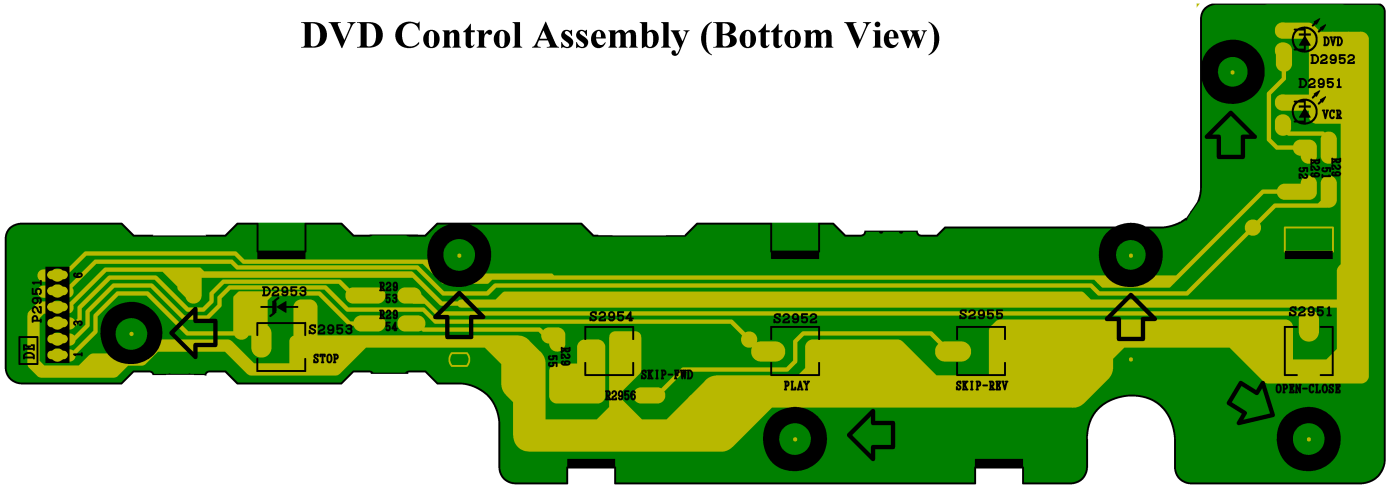
R5670
R5671
R5672
R5673
R5674
R5675
R5676
R5677
R5678
R5679
R5680
R5681
R5682
R5683
R5684
R5685
R5686
R5687
R5688
R5689
R5690
R5691
R5692
R5693

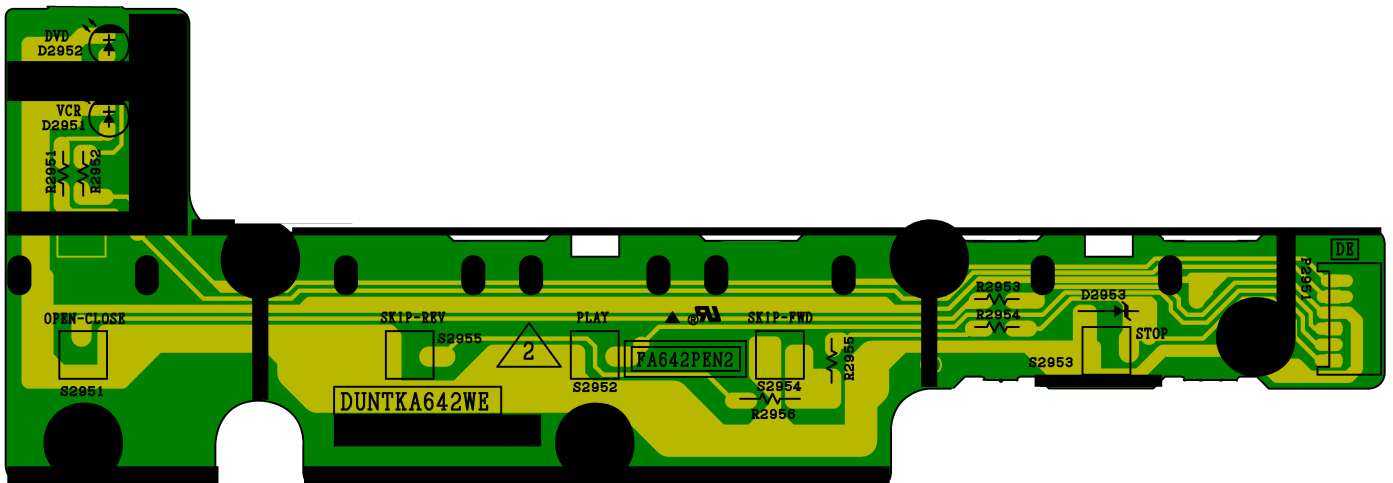
DEFLECTION (TOP VIEW)

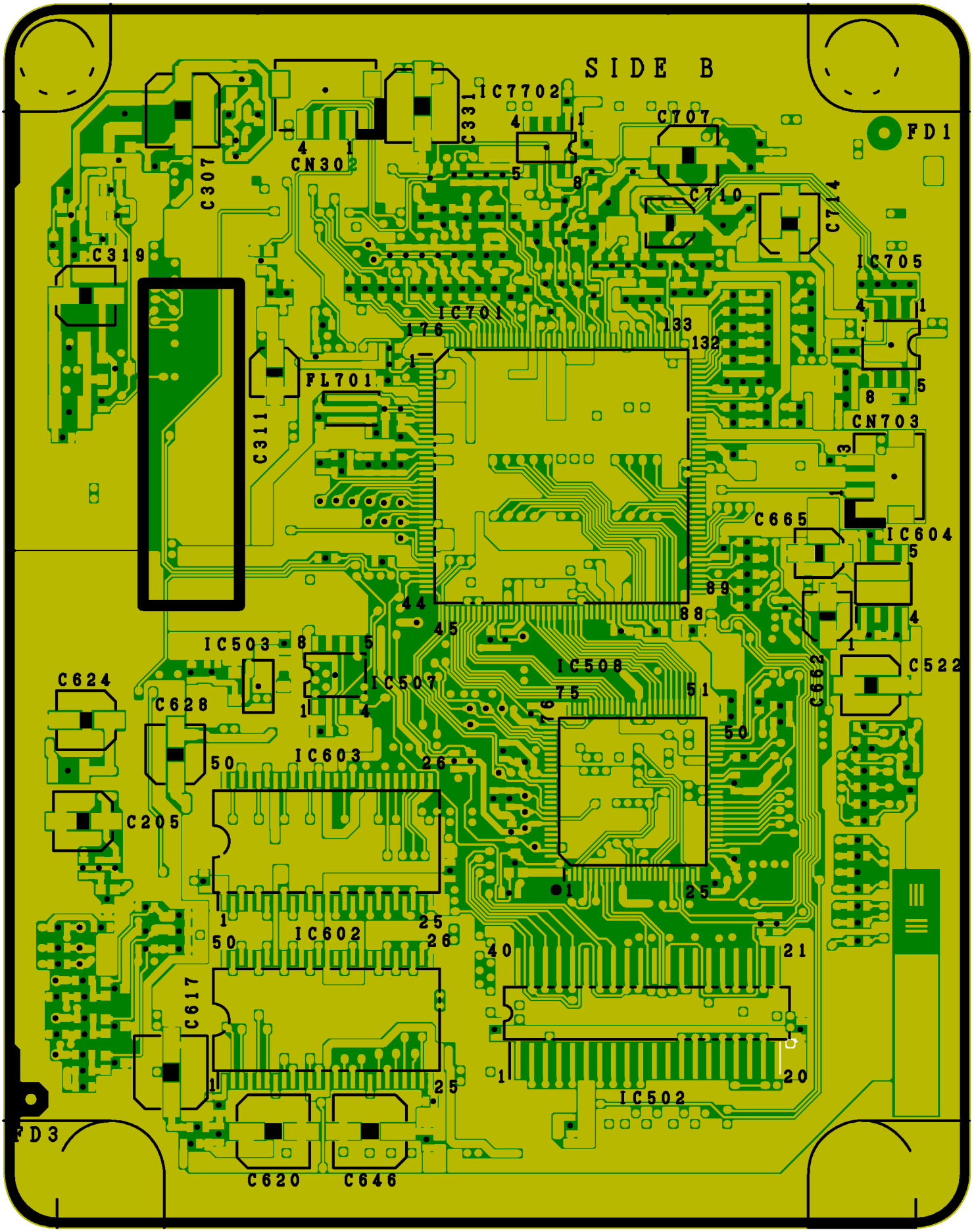


DVD Control Assembly (Bottom View)

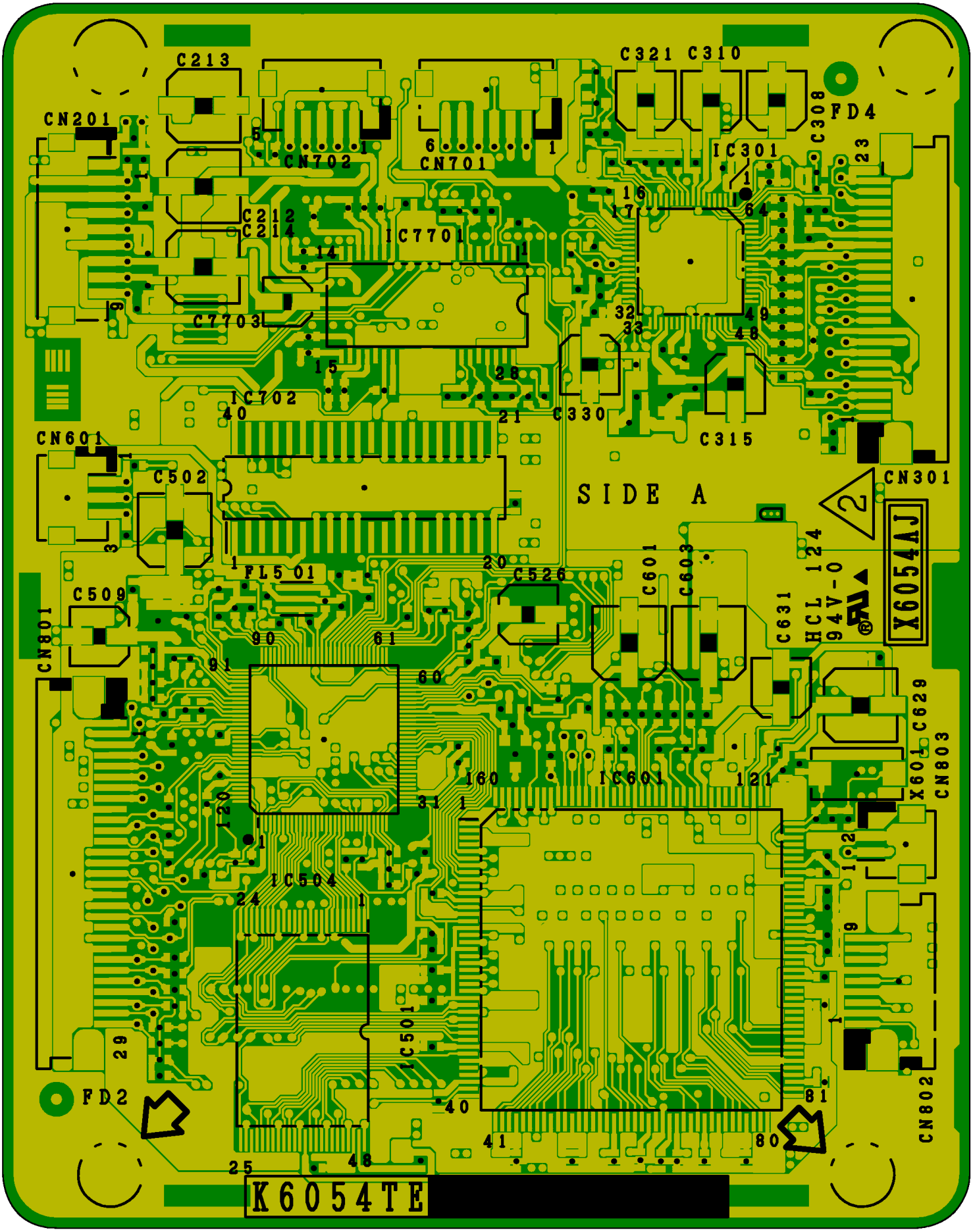


DVD Control Assembly (Top View)

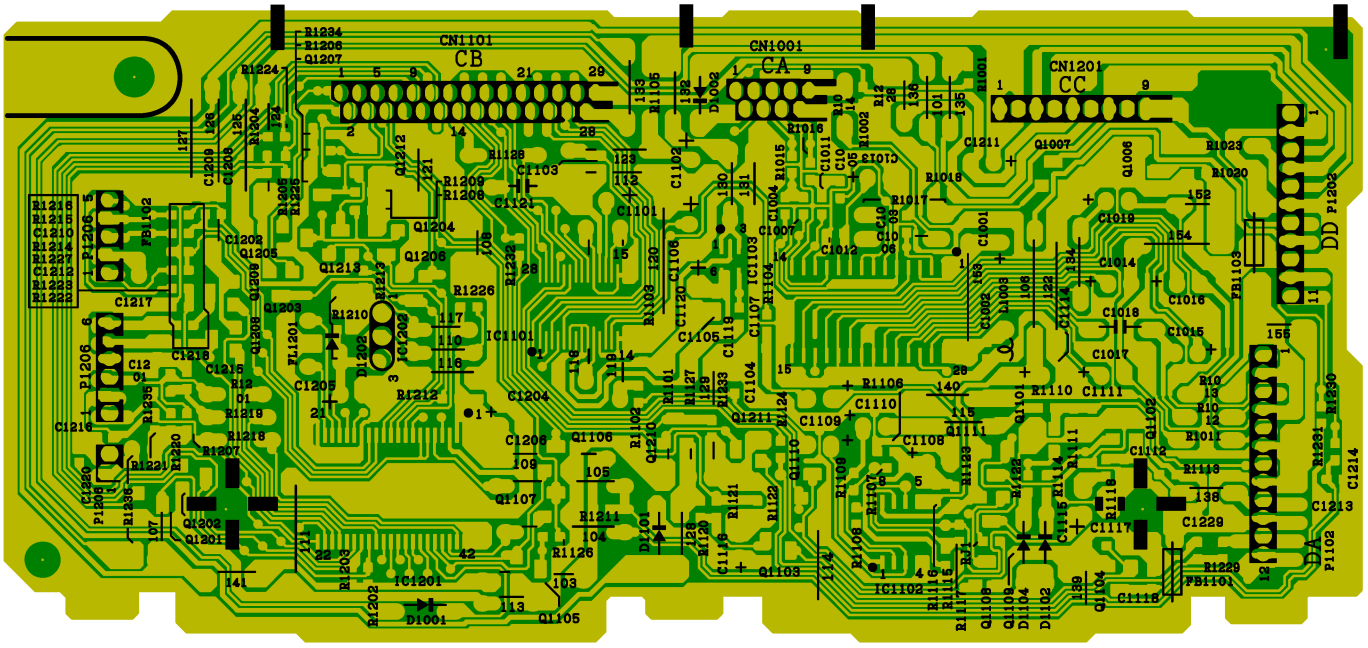



SIDE B
IC7702
C707
FD1
C307
CN302
C319
C710
C714
IC705
IC701
176
133
132
FL701
C311
CN703
C665
IC604
44
89
88
45
IC503
IC507
IC508
C624
C628
75
51
C522
C662
50
IC603
26
C205
1
25
IC602
50
26
40
21
C617
20
IC502
FD3
C620
C646

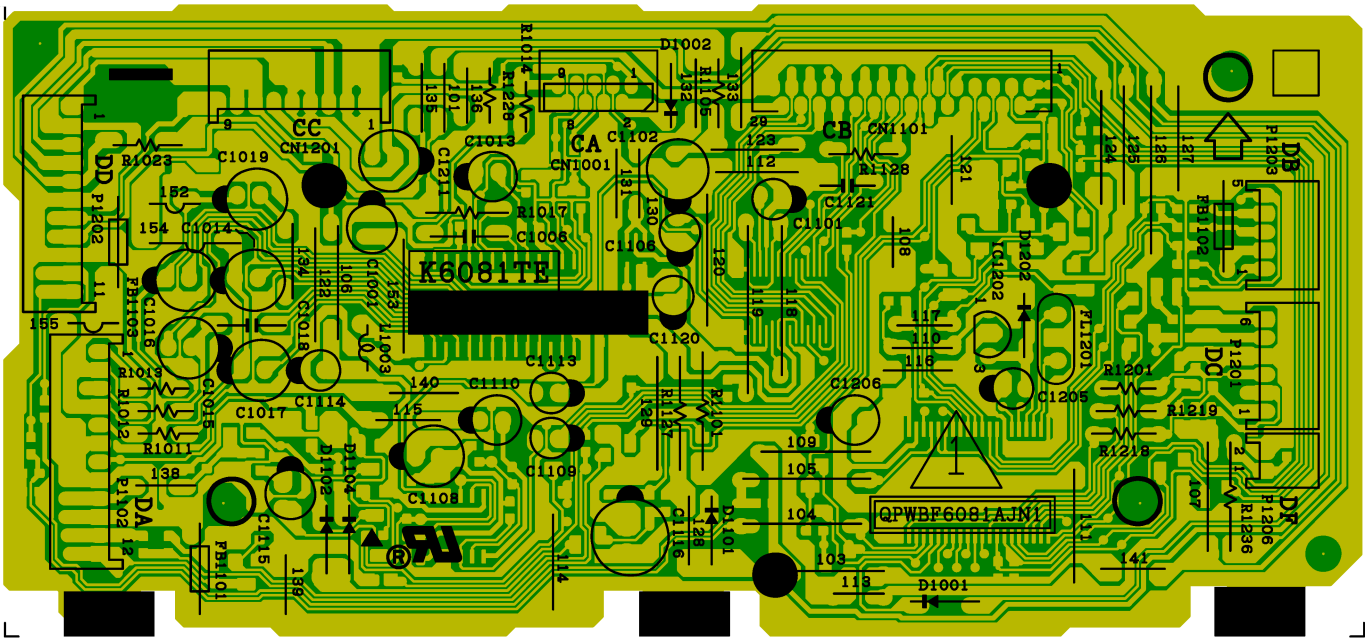
DVD Main PCBTop View



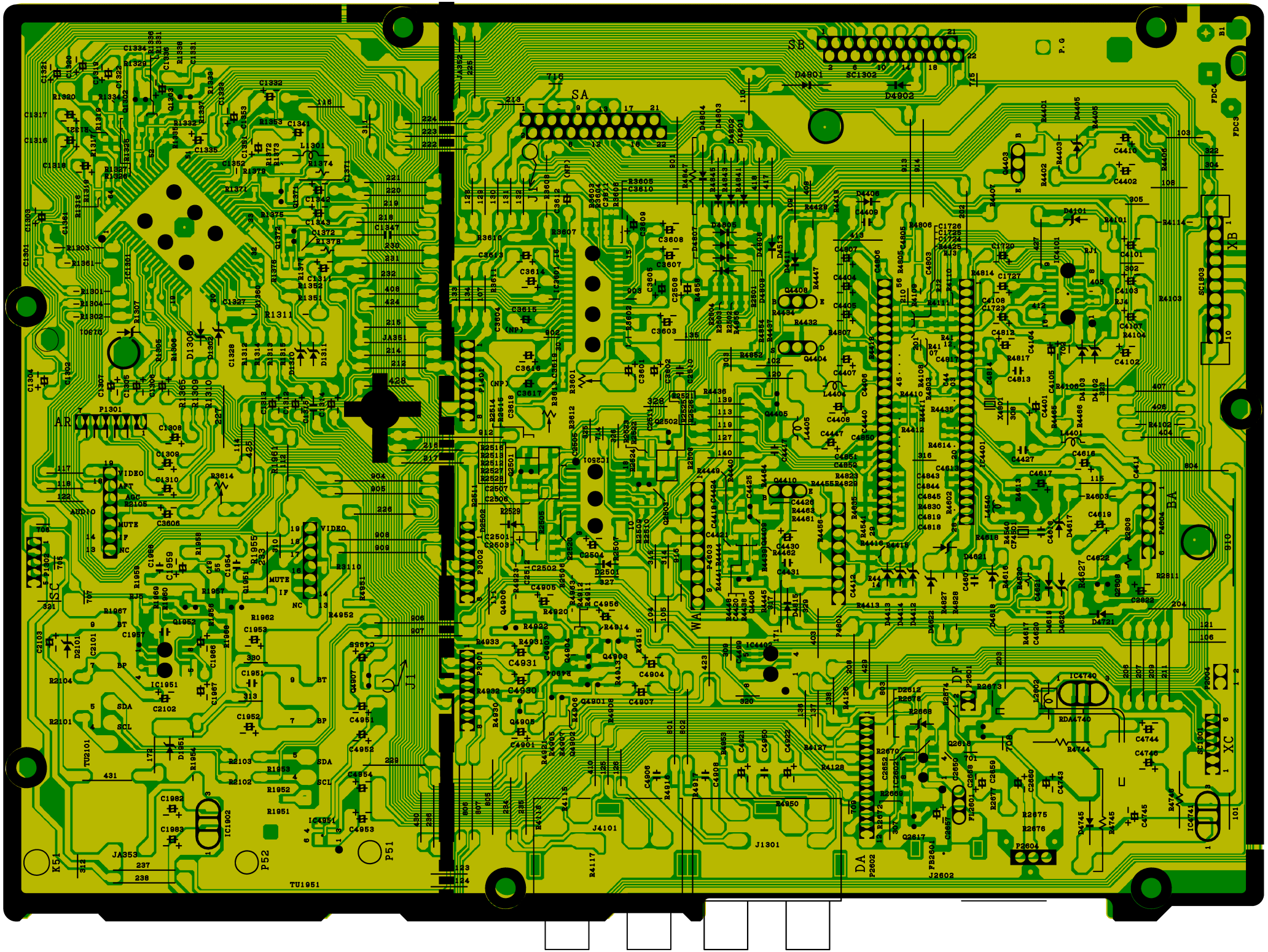
DVD SUB Unit


CN1101
CB
CN1001
CA
CN1201
CC
DD P1202
P1206
P1102
IC1101
IC1102
IC1201
D1001
D1002
D1101
D1102
D1103
D1104
FB1101
FB1102
FB1103
Q1201
Q1202
Q1203
Q1204
Q1205
Q1206
Q1207
Q1208
Q1209
Q1210
Q1211
Q1212
Q1213
Q1214
Q1215
Q1216
Q1217
Q1218
Q1219
Q1220
Q1221
Q1222
Q1223
Q1224
Q1225
Q1226
Q1227
Q1228
Q1229
Q1230
Q1231
Q1232
Q1233
Q1234
Q1235
Q1236
Q1237
Q1238
Q1239
Q1240

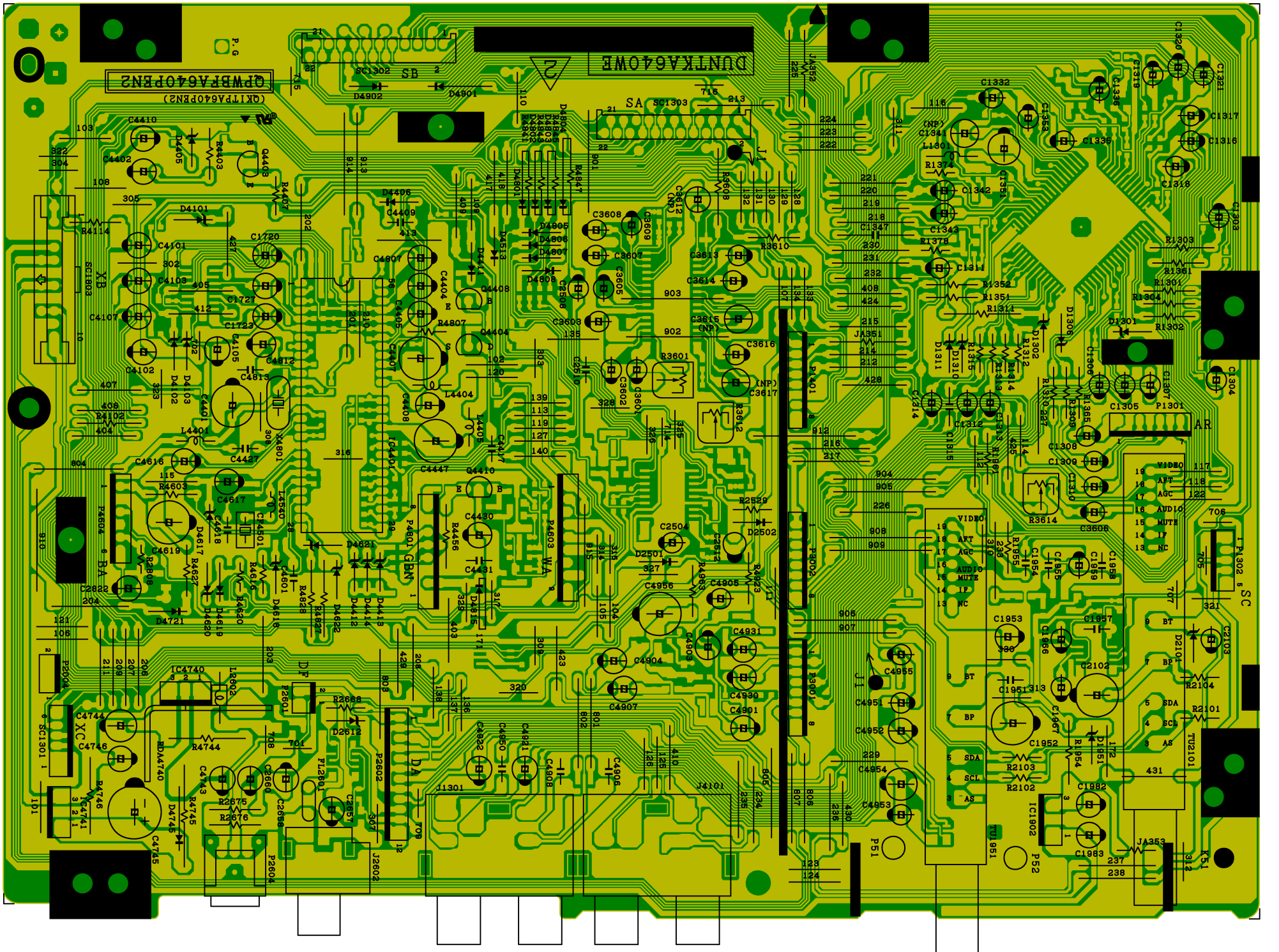
DVD SUB Unit

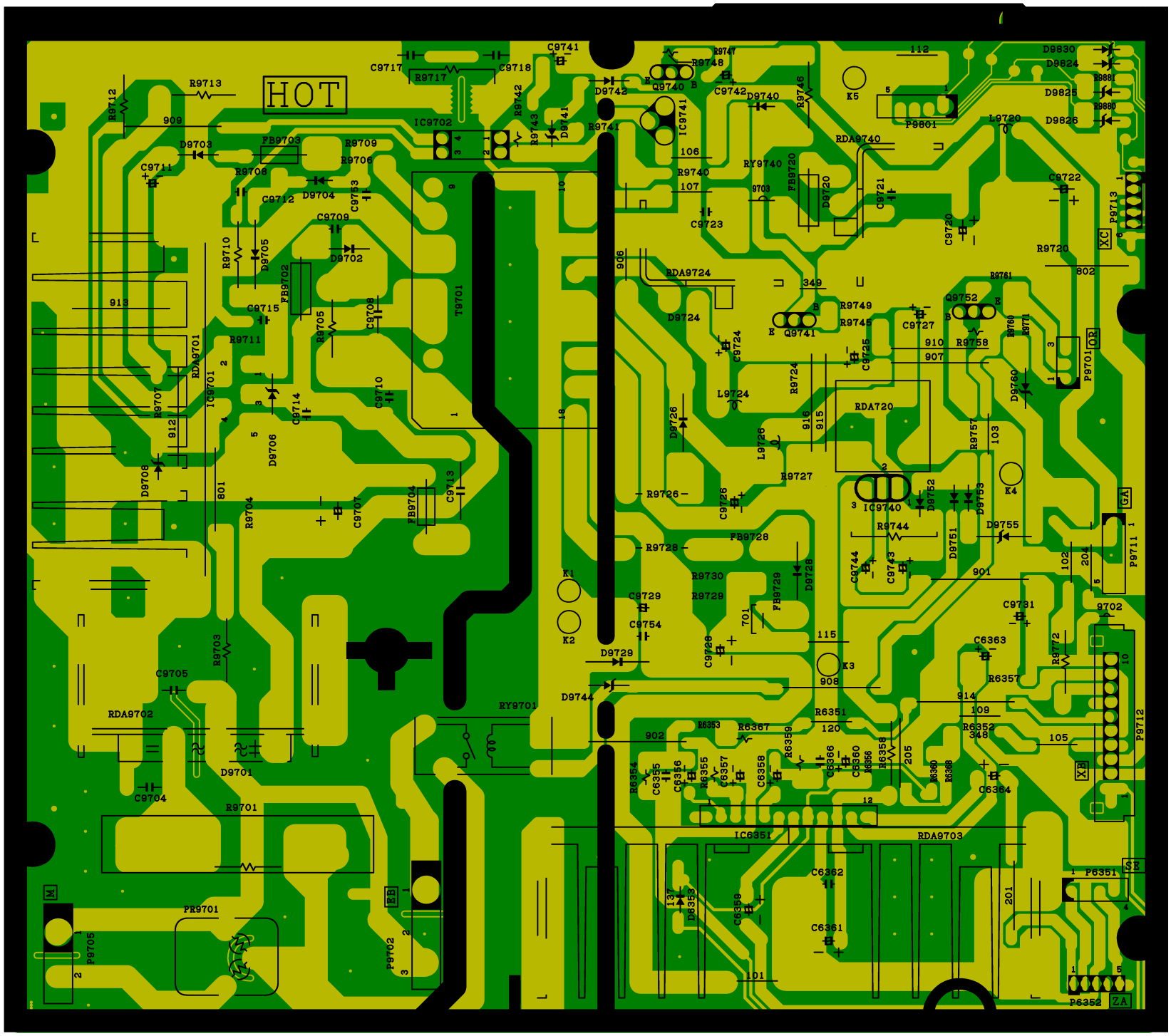

K6081TE
QPWBF6081AJN1
CA
CB
CC
DA
DB
DC
DD
CN1001
CN1101
CN1201
P1202
P1203
P1204
D1001
D1002
D1101
D1102
D1104
D1201
D1202
C1019
C1014
C1018
C1017
C1114
C1110
C1113
C1109
C1108
C1115
C1116
C1120
C1102
C1013
C1008
C1105
C1121
C1101
C1306
C1205
R1023
R1011
R1012
R1013
R1014
R1017
R1128
R1201
R1218
R1219
R1236
FB1102
FB1103
FB1104
FL1201
L1201

Signal Processor (Bottom View)

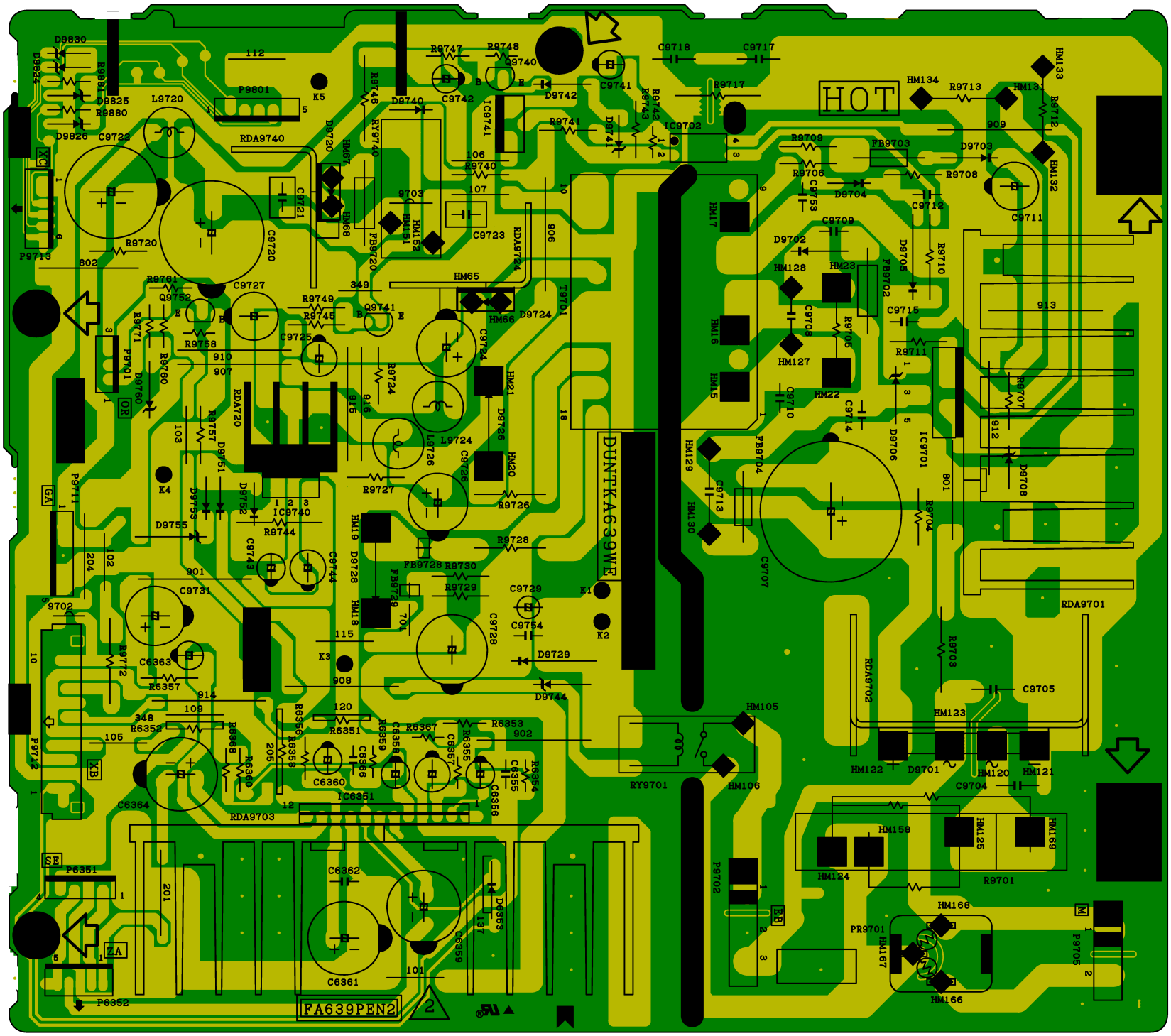


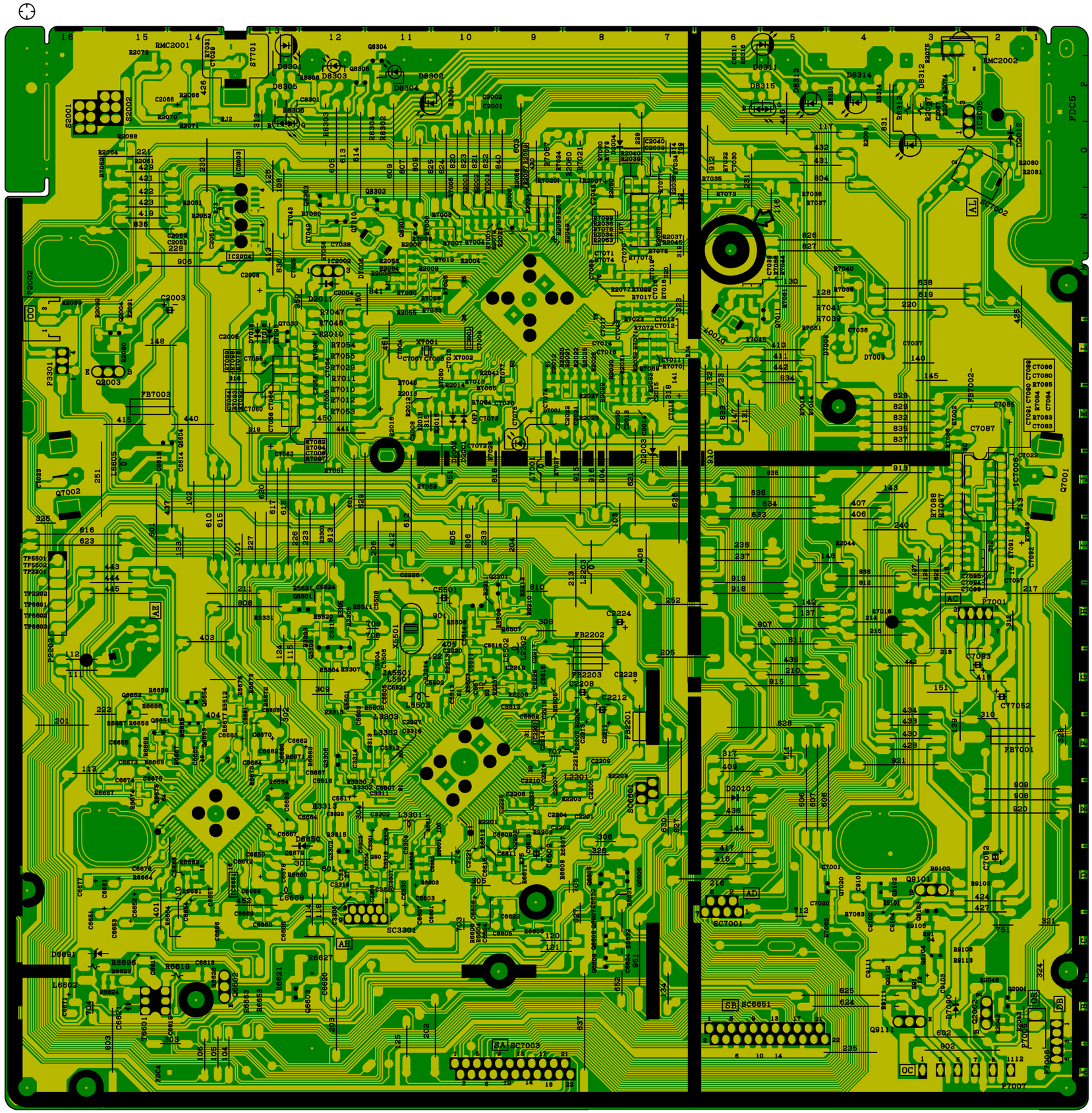
Signal Processor (Top View)



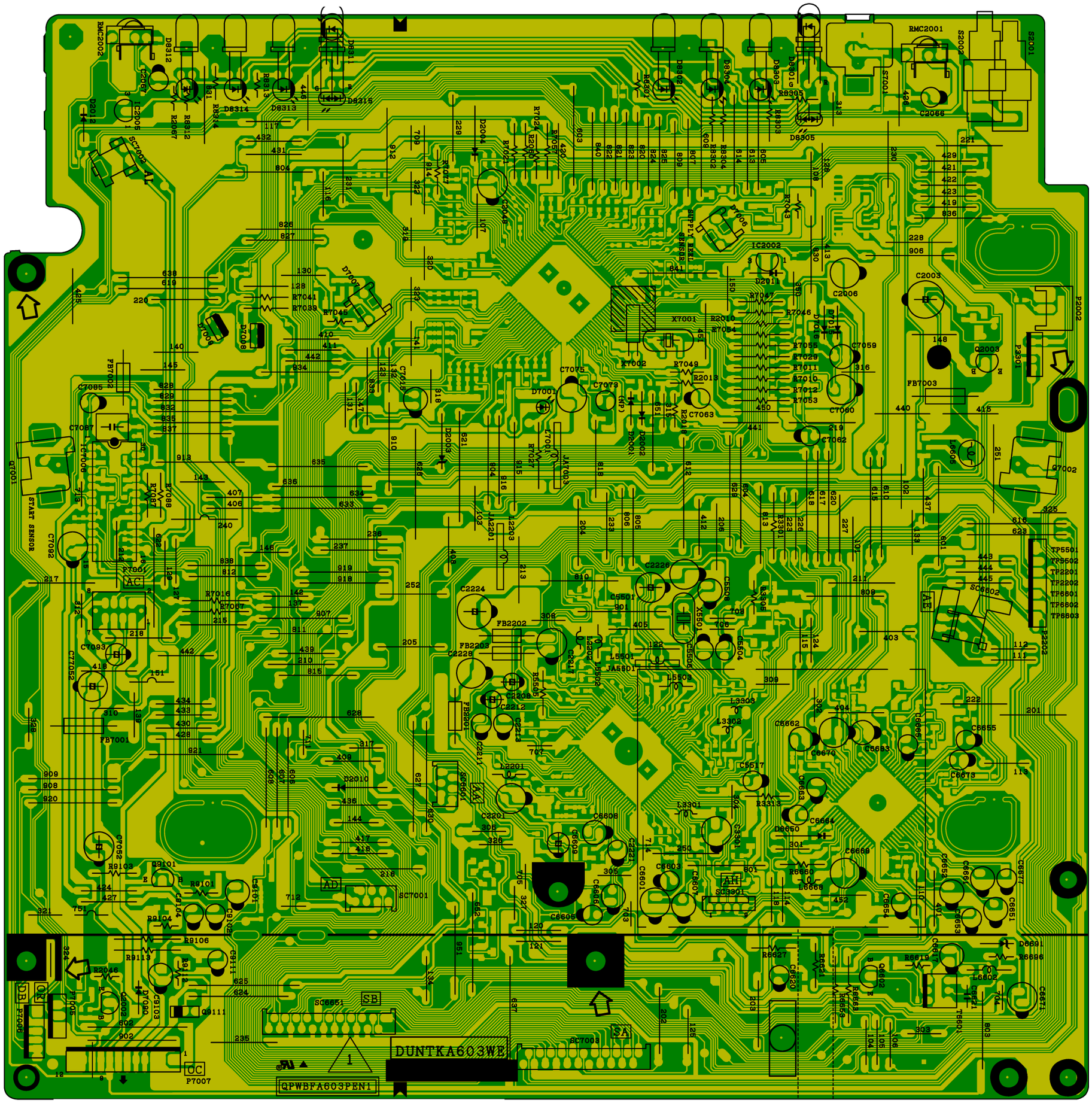

HOT
C9741
C9717
C9718
R9717
R9747
R9748
Q9740
C9742
D9740
D9742
R9742
R9743
D9741
R9741
IC9741
IC9702
R9746
K5
P9801
112
D9830
D9824
D9825
D9826
L9720
RDA9740
RY9740
FB9720
D9720
C9721
C9722
C9720
P9713
XC
R9720
602
R9712
R9713
909
D9703
FB9703
R9709
R9706
C9711
C9712
D9704
C9753
C9709
D9702
R9710
D9705
FB9702
913
C9715
R9705
C9708
R9711
RDA9701
IC9701
R9707
912
D9706
C9714
C9710
D9708
801
R9704
C9707
FB9704
C9713
T9701
906
RDA9724
D9724
R9749
R9745
Q9741
C9727
Q9752
R9761
R9760
R9771
910
R9758
907
P9701
OR
C9724
C9725
L9724
R9724
RDA720
D9726
916
915
L9726
D9760
R9757
103
R9727
R9726
C9728
IC9740
D9752
D9753
K4
GA
R9744
D9755
FB9728
R9728
D9751
C9744
C9743
P9711
102
204
901
K1
R9730
R9729
D9728
C9729
C9754
FB9729
701
C9731
9702
K2
D9729
C9726
115
C6363
R9772
K3
C9705
908
R6357
914
RDA9702
D9744
RY9701
R6351
109
902
R6353
R6367
120
R6352
105
R6359
C6366
C6360
R6356
R6354
205
C6355
C6356
R6355
C6357
C6358
R6360
R6368
C6364
XB
P9712
D9701
C9704
R9701
12
IC6351
RDA9703
C6362
P6351
SE
M
EB
PR9701
P9705
P9702
D6353
C6359
137
201
C6361
101
P6352
ZA

TV Power Supply (Top View)

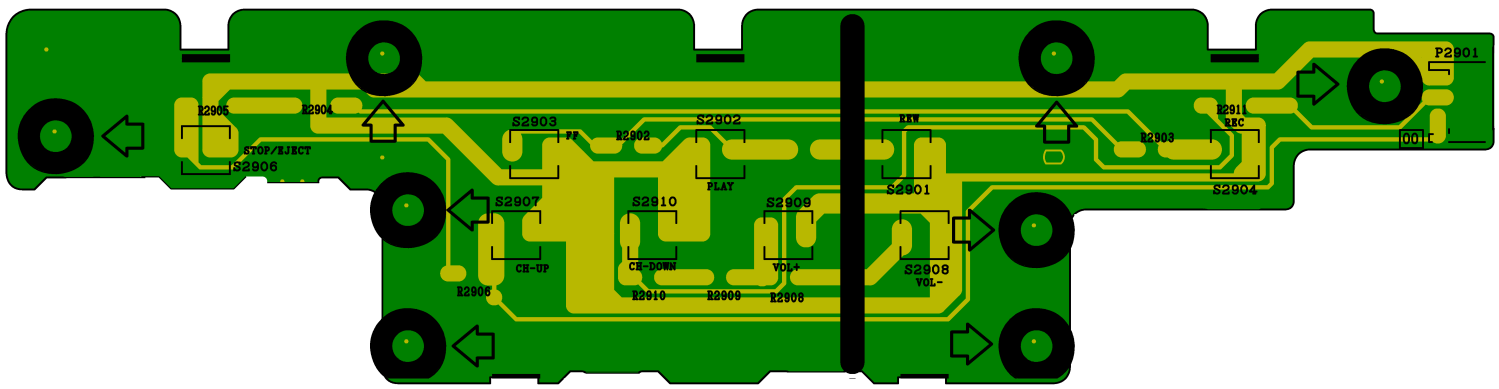


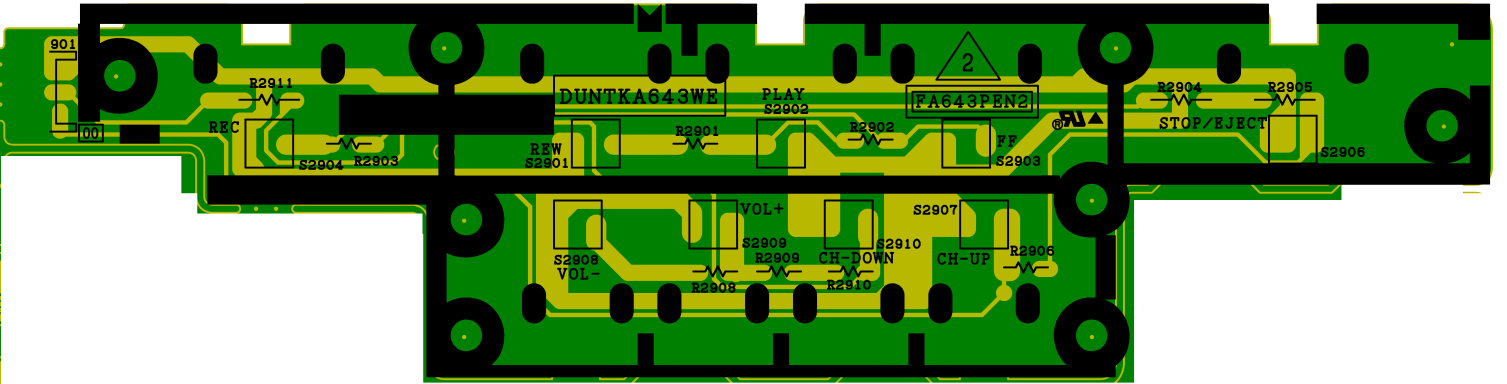


VCR PCB (Top View)



VCR Control Assembly (Bottom View)

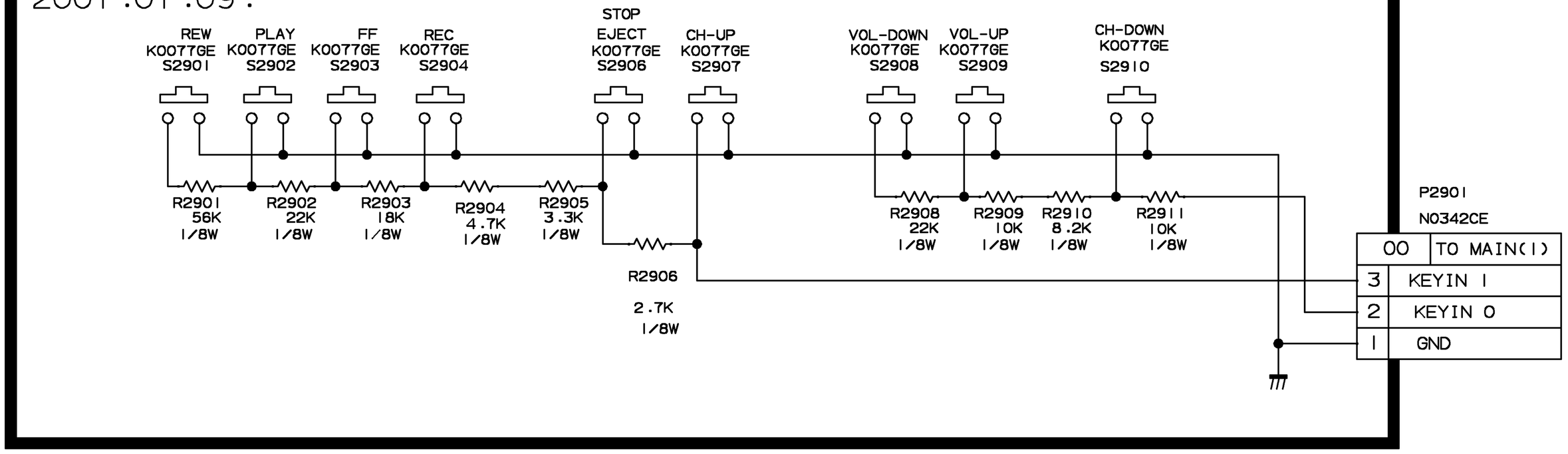



901
R2911
REC
S2904
R2903
DUNTKA643WE
PLAY
S2902
REW
S2901
R2901
R2902
FF
S2903
2
PA643PEN2
R2904
R2905
STOP/EJECT
S2906
VOL+
S2907
S2908
VOL-
S2909
R2909
CH-DOWN
S2910
R2908
R2910
CH-UP
R2906

B27TF680

VCR_CONTROL DUNTKA643WE

2001.07.09.



NOTE: 1.THE UNIT OF RESISTANCE "OHM" IS OMITTED
(K=1000 OHMS, M=MEGAOHM).
2.THE UNIT OF ALL CAPACITORS ARE F WITH PREFIX SYMBOL
(u, P, ETC).